# VARkombi-18-PC REGISTER TABLE

| Modbus Address (HEX) | modbus data type | Data Name | Read Write | Multiplier | Unit | Max. Value | Min. Value |
|---|---|---|---|---|---|---|---|
| 0000 | U16 | Country Code (869) | R | | | | |
| 0001 | U16 | company code (7436) | R | | | | |
| 0002 | | | | | | | |
| 0003 | U32 | Product Code (88111) | R | | | | |
| 0004 | U16 | Barcode check (6) | R | | | | |
| 0005 | U16 | program communication Version (0x400) | R | | | | |
| 0006 | U16 | User define number H | R/W | | | 0xFFFF | 0X0000 |
| 0007 | U16 | User define number L | R/W | | | 0xFFFF | 0X0000 |

## Read Parameters Table (32-16bit signed/unsigned integer table)

| Modbus Address (HEX) | modbus data type | Data Name | Read Write | Multiplier | Unit | Max. Value | Min. Value |
|---|---|---|---|---|---|---|---|
| 1000 | U16 | Current Transformer Ratio (1-2000) (CTRF) | R/W | --------- | --------- | 2000 | 1 |
| 1001 | U16 | Device working information bits<br><br>if bit0=1 ; manual mode, if 0 ; automatic mode<br>if bit1=0 ; learnning mode , if 1 ; were learned all steps<br>if bit2=0 ; normal working mode, if 1 ; fast working mode<br>if bit3=1 ; step protection was enabled. If 0 ; step protection was disabled.<br>if bit4=0 ; there is no signal at generator input, if 1 ; there is a signal at generator input<br>If bit5=0 ; tanFi used, if 1; tanFi was enabled<br>If bit6=0 ; phase L1 is capacitive, if 1; inductive<br>If bit7=0 ; phase L2 is capacitive, if 1; inductive<br>If bit8=0 ; phase L3 is capacitive, if 1; inductive<br>If bit9=0 ; total system is capacitive, if 1; inductive<br>If bit10=0 ; current transformer of L1 phase is right connection, if 1 ; opposite connection<br>If bit11=0 ; current transformer of L2 phase is right connection, if 1 ; opposite connection<br>If bit12=0 ; current transformer of L3 phase is right connection, if 1 ; opposite connection<br>If bit13=1 ; direction of current transformer of L1 phase was learned,, if 0 ; was not learned<br>If bit14=1 ; direction of current transformer of L2 phase was learned,, if 0 ; was not learned<br>If bit15=1 ; direction of current transformer of L3 phase was learned,, if 0 ; was not learned | R | --------- | --------- | | |
| 1002 | U16 | Input Voltage Phase1 (100mV) | R | 0.1 | Volt | | |
| 1003 | U16 | Input Voltage Phase2 (100mV) | R | 0.1 | Volt | | |
| 1004 | U16 | Input Voltage Phase3 (100mV) | R | 0.1 | Volt | | |
| 1005 | U16 | Input Current Phase1 (mA) | R | CTRFx0.001 | Amp | | |
| 1006 | U16 | Input Current Phase2 (mA) | R | CTRFx0.001 | Amp | | |
| 1007 | U16 | Input Current Phase3 (mA) | R | CTRFx0.001 | Amp | | |
| 1008 | U16 | Input Active Power Phase1 (watt) | R | CTRF | watt | | |
| 1009 | U16 | Input Active Power Phase2 (watt) | R | CTRF | watt | | |
| 100A | U16 | Input Active Power Phase3 (watt) | R | CTRF | watt | | |

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|---|---|---|---|---|---|---|---|
| 100B | S16 | Input Reactive Power Phase1 (Var) | R | CTRF | Var | | |
| 100C | S16 | Input Reactive Power Phase2 (Var) | R | CTRF | Var | | |
| 100D | S16 | Input Reactive Power Phase3 (Var) | R | CTRF | Var | | |
| 100E | U16 | Input Appearent Power Phase1 (VA) | R | CTRF | VA | | |
| 100F | U16 | Input Appearent Power Phase2 (VA) | R | CTRF | VA | | |
| 1010 | U16 | Input Appearent Power Phase3 (VA) | R | CTRF | VA | | |
| 1011 | S16 | Cos Φ Phase1 (cosΦ1 x 1000) | R | --------- | 0.001 | | |
| 1012 | S16 | Cos Φ Phase2 (cosΦ2 x 1000) | R | --------- | 0.001 | | |
| 1013 | S16 | Cos Φ Phase3 (cosΦ3 x 1000) | R | --------- | 0.001 | | |
| 1014 | S16 | SUM cos Φ (cosΦ x 1000) vectorial | R | --------- | 0.001 | | |
| 1015 | S16 | Tan Φ1 Phase1 (%) | R | --------- | 0.01 | | |
| 1016 | S16 | Tan Φ2 Phase2 (%) | R | --------- | 0.01 | | |
| 1017 | S16 | Tan Φ3 Phase3 (%) | R | --------- | 0.01 | | |
| 1018 | S16 | SUM tan Φ (%) vectorial | R | --------- | 0.01 | | |
| 1019 | U16 | Total Active Power (watt) | R | CTRF | watt | | |
| 101A | U16 | Total Inductive Power (var) | R | CTRF | Var | | |
| 101B | U16 | Total Capacitive Power (var) | R | CTRF | Var | | |
| 101C | S16 | SUM reactive Power(var) (ΣQind. - Σqcap.) | R | CTRF | Var | | |
| 101D | U16 | SUM Appearent Power (VA) | R | CTRF | VA | | |
| 101E | U16 | frequency (100mHz) | R | 0.1 | Hz | | |
| 101F | S16 | Temperature | R | --------- | C° | | |
| 1020 | U16 | Phase Alarms Output Bits for Phase1 | R | --------- | --------- | overVoltage Bit0<br>underVoltage Bit1<br>overCurrent Bit2<br>overCompensation Bit3<br>UnderCompensationBit4<br>missingPhase Bit5<br>overTHDV Bit6<br>overHDV Bit7<br>overTHDC Bit8<br>overHDC Bit9 | |
| 1021 | U16 | Phase Alarms Output Bits for Phase2 | R | --------- | --------- | | |
| 1022 | U16 | Phase Alarms Output Bits for Phase3 | R | --------- | --------- | | |
| 1023 | U16 | Global Alarms Output Bits:<br><br>missingConnector1 Bit0<br>missingConnector2 Bit1<br>missingConnector3 Bit2<br>overCompansation Bit3<br>underCompansation Bit4<br>systemError Bit5<br>overHeatBit Bit6<br>phaseVoltageConnectionError Bit7<br>Changed of step value Bit8<br>warning; Zero of step value Bit9<br>ProtectedModbusEnteranceError Bit10 | R | --------- | --------- | | |

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|---|---|---|---|---|---|---|---|
| 1024 | U16 | Step protection types:<br><br>BIT0 : Temperature protection<br>BIT1 : over and under voltage protection<br>BIT2 : protection for THD-V<br>BIT3 : protection for wrong voltage connection<br>BIT4 : protection for if current value is zero on all phases<br>BIT5 : protection for factory settings | R | --------- | --------- | | |
| 1025 | U16 | Warnings for voltage and no current<br><br>If bit0=1 ; there is a current of L1 phase, if bit0=0 ; There is no current in phase L1<br>If bit1=1 ; there is a current of L2 phase, if bit0=0 ; There is no current in phase L2<br>If bit2=1 ; there is a current of L3 phase, if bit0=0 ; There is no current in phase L3<br>If bit3=1 ; there is a voltage in phase L1, if bit1=0 no volatge in phase L1<br>If bit4=1 ; there is a voltage in phase L2, if bit1=0 no volatge in phase L2<br>If bit5=1 ; there is a voltage in phase L3, if bit1=0 no volatge in phase L3<br>If bit6=1 ; one of phases exist, if bit6=0 ; there are all phases<br>If bit7=1 ; phase sequence error, if bit7=0 ;there is no phase sequence error<br>If bit8=1 ; there is a short circuit at between L1 and L2 phases.<br>If bit9=1 ; there is a short circuit at between L2 and L3 phases.<br>If bit10=1 ; there is a short circuit at between L1 and L3 phases.<br>If bit11=1 ; Phase with neutral connection error | R | --------- | --------- | | |
| 1026 | U16 | voltage1 ZeroCrossOverAngle (referance)(everytime 0) | R | --------- | Degree | | |
| 1027 | U16 | current1 ZeroCrossOverAngle (referance between angle)(0-359) | R | --------- | Degree | | |
| 1028 | U16 | voltage2 ZeroCrossOverAngle (referance between angle)(0-359) | R | --------- | Degree | | |
| 1029 | U16 | current2 ZeroCrossOverAngle (referance between angle)(0-359) | R | --------- | Degree | | |
| 102A | U16 | voltage3 ZeroCrossOverAngle (referance between angle)(0-359) | R | --------- | Degree | | |
| 102B | U16 | current3 ZeroCrossOverAngle (referance between angle)(0-359) | R | --------- | Degree | | |
| 102C<br>102D | U32 | The steps that are running<br>17-0 steps, 31 Alarm , 30 Fan | R | --------- | --------- | | |
| 102E<br>102F | U32 | The steps that are learned<br>//17-0 steps, 31 The used all steps was learned | R | --------- | --------- | | |
| 1030<br>1031 | U32 | Inductors at L1 phase<br>//17-0 steps | R | --------- | --------- | | |
| 1032<br>1033 | U32 | Inductors at L2 phase<br>//17-0 steps | R | --------- | --------- | | |
| 1034<br>1035 | U32 | Inductors at L3 phase<br>//17-0 steps | R | --------- | --------- | | |
| 1036<br>1037 | U32 | capacitors at L1 phase<br>//17-0 steps | R | --------- | --------- | | |
| 1038<br>1039 | U32 | capacitors at L2 phase<br>//17-0 steps | R | --------- | --------- | | |
| 103A<br>103B | U32 | capacitors at L3 phase<br>//17-0 steps | R | --------- | --------- | | |
| 103C<br>103D | U32 | Steps that are ready<br>//17-0 steps | R | --------- | --------- | | |
| 103E | U16 | recent time Phase1 inductive/Active energy Ratio(%) | R | 0.01 | --------- | | |
| 103F | U16 | recent time Phase1 capacitive/Active energy Ratio(%) | R | 0.01 | --------- | | |
| 1040 | U16 | recent time Phase2 inductive/Active energy Ratio(%) | R | 0.01 | --------- | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1041 | U16 | recent time Phase2 capacitive/Active energy Ratio(%) | R | 0.01 | --------- | | |
| 1042 | U16 | recent time Phase3 inductive/Active energy Ratio(%) | R | 0.01 | --------- | | |
| 1043 | U16 | recent time Phase3 capacitive/Active energy Ratio(%) | R | 0.01 | --------- | | |
| 1044 | U16 | recent time Phases SUM inductive/Active energy Ratio(%) | R | 0.01 | --------- | | |
| 1045 | U16 | recent time Phases SUM capacitive/Active energy Ratio(%) | R | 0.01 | --------- | | |
| 1046 | S16 | Slided inductive ratio bound Value phase1 (%) | R | 0.01 | --------- | | |
| 1047 | S16 | Slided capacitive ratio bound Value phase1 (%) | R | 0.01 | --------- | | |
| 1048 | S16 | Slided inductive ratio bound Value phase2 (%) | R | 0.01 | --------- | | |
| 1049 | S16 | Slided capacitive ratio bound Value phase2 (%) | R | 0.01 | --------- | | |
| 104A | S16 | Slided inductive ratio bound Value phase3 (%) | R | 0.01 | --------- | | |
| 104B | S16 | Slided capacitive ratio bound Value phase3 (%) | R | 0.01 | --------- | | |
| 104C | S16 | Slided inductive ratio real Value phase1 (%) | R | 0.01 | --------- | | |
| 104D | S16 | Slided capacitive ratio real Value phase1 (%) | R | 0.01 | --------- | | |
| 104E | S16 | Slided inductive ratio real Value phase2 (%) | R | 0.01 | --------- | | |
| 104F | S16 | Slided capacitive ratio real Value phase2 (%) | R | 0.01 | --------- | | |
| 1050 | S16 | Slided inductive ratio real Value phase3 (%) | R | 0.01 | --------- | | |
| 1051 | S16 | Slided capacitive ratio real Value phase3 (%) | R | 0.01 | --------- | | |
| 1052 | U16 | step out On time phase 1 (200 msec unit) | R | 0.2 | second | | |
| 1053 | U16 | step out Off time phase1 (200 msec unit) | R | 0.2 | second | | |
| 1054 | U16 | step out On time phase 2 (200 msec unit) | R | 0.2 | second | | |
| 1055 | U16 | step our Off time phase2 (200 msec unit) | R | 0.2 | second | | |
| 1056 | U16 | step out On time phase 3 (200 msec unit) | R | 0.2 | second | | |
| 1057 | U16 | step our Off time phase3 (200 msec unit) | R | 0.2 | second | | |
| 1058 | U16 | step out On time threephases steps (200 msec unit) | R | 0.2 | second | | |
| 1059 | U16 | step our Off time threephases steps (200 msec unit) | R | 0.2 | second | | |

## Read Parameters Table (32 bit float / 32-16bit signed/unsigned integer mixed table)

| Modbus Address (HEX) | modbus data type | Data Name | Read Write | Multiplier | Unit | Max. Value | Min. Value |
|---|---|---|---|---|---|---|---|
| 1100 | U16 | Current Transformer Ratio (1-2000) (CTRF) | R/W | --------- | --------- | 2000 | 1 |

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|---|---|---|---|---|---|---|---|
| 1101 | U16 | Device working information bits<br><br>if bit0=1 ; manual mode, if 0 ; automatic mode<br>if bit1=0 ; learnning mode , if 1 ; were learned all steps<br>if bit2=0 ; normal working mode, if 1 ; fast working mode<br>if bit3=1 ; step protection was enabled. If 0 ; step protection was disabled.<br>if bit4=0 ; there is no signal at generator input, if 1 ; there is a signal at generator input<br>If bit5=0 ; tanFi used, if 1; tanFi was enabled<br>If bit6=0 ; phase L1 is capacitive, if 1; inductive<br>If bit7=0 ; phase L2 is capacitive, if 1; inductive<br>If bit8=0 ; phase L3 is capacitive, if 1; inductive<br>If bit9=0 ; total system is capacitive, if 1; inductive<br>If bit10=0 ; current transformer of L1 phase is right connection, if 1 ; opposite connection<br>If bit11=0 ; current transformer of L2 phase is right connection, if 1 ; opposite connection<br>If bit12=0 ; current transformer of L3 phase is right connection, if 1 ; opposite connection<br>If bit13=1 ; direction of current transformer of L1 phase was learned,, if 0 ; was not learned<br>If bit14=1 ; direction of current transformer of L2 phase was learned,, if 0 ; was not learned<br>If bit15=1 ; direction of current transformer of L3 phase was learned,, if 0 ; was not learned | R | --------- | --------- | | |
| 1102 | | | | | | | |
| 1103 | Float (32bit) | Input Voltage Phase1(Volt) | R | --------- | Volt | | |
| 1104 | | | | | | | |
| 1105 | Float (32bit) | Input Voltage Phase2(Volt) | R | --------- | Volt | | |
| 1106 | | | | | | | |
| 1107 | Float (32bit) | Input Voltage Phase3(Volt) | R | --------- | Volt | | |
| 1108 | | | | | | | |
| 1109 | Float (32bit) | Input Current Phase1 (A) | R | CTRF | Amp | | |
| 110A | | | | | | | |
| 110B | Float (32bit) | Input Current Phase2 (A) | R | CTRF | Amp | | |
| 110C | | | | | | | |
| 110D | Float (32bit) | Input Current Phase3 (A) | R | CTRF | Amp | | |
| 110E | | | | | | | |
| 110F | Float (32bit) | Input Active Power Phase1 (watt) | R | CTRF | watt | | |
| 1110 | | | | | | | |
| 1111 | Float (32bit) | Input Active Power Phase2 (watt) | R | CTRF | watt | | |
| 1112 | | | | | | | |
| 1113 | Float (32bit) | Input Active Power Phase3 (watt) | R | CTRF | watt | | |
| 1114 | | | | | | | |
| 1115 | Float (32bit) | Input Reactive Power Phase1 (Var) | R | CTRF | Var | | |
| 1116 | | | | | | | |
| 1117 | Float (32bit) | Input Reactive Power Phase2 (Var) | R | CTRF | Var | | |
| 1118 | | | | | | | |
| 1119 | Float (32bit) | Input Reactive Power Phase3 (Var) | R | CTRF | Var | | |
| 111A | | | | | | | |
| 111B | Float (32bit) | Input Appearent Power Phase1 (VA) | R | CTRF | VA | | |
| 111C | | | | | | | |
| 111D | Float (32bit) | Input Appearent Power Phase2 (VA) | R | CTRF | VA | | |
| 111E | | | | | | | |
| 111F | Float (32bit) | Input Appearent Power Phase3 (VA) | R | CTRF | VA | | |
| 1120 | | | | | | | |

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|---|---|---|---|---|---|---|---|
| 1121 | Float (32bit) | Cos Φ1 Phase1 | R | --------- | Cosfi | | |
| 1122<br>1123 | Float (32bit) | Cos Φ2 Phase2 | R | --------- | Cosfi | | |
| 1124<br>1125 | Float (32bit) | Cos Φ3 Phase3 | R | --------- | Cosfi | | |
| 1126<br>1127 | Float (32bit) | SUM cos Φ vectorial | R | --------- | Cosfi | | |
| 1128<br>1129 | Float (32bit) | Tan Φ1 Phase1 | R | --------- | tanfi | | |
| 112A<br>112B | Float (32bit) | Tan Φ2 Phase2 | R | --------- | tanfi | | |
| 112C<br>112D | Float (32bit) | Tan Φ3 Phase3 | R | --------- | tanfi | | |
| 112E<br>112F | Float (32bit) | SUM Tan Φ vectorial | R | --------- | tanfi | | |
| 1130<br>1131 | Float (32bit) | Total Active Power (watt) | R | CTRF | watt | | |
| 1132<br>1133 | Float (32bit) | Total Inductive Power (var) | R | CTRF | Var | | |
| 1134<br>1135 | Float (32bit) | Total Capacitive Power (var) | R | CTRF | Var | | |
| 1136<br>1137 | Float (32bit) | SUM reactive Power(var) | R | CTRF | Var | | |
| 1138<br>1139 | Float (32bit) | Total Appeared Power(VA) | R | CTRF | VA | | |
| 113A<br>113B | Float (32bit) | Frequency | R | --------- | Hz | | |
| 113C | S16 | Temperature | R | --------- | C° | | |
| 113D | U16 | Phase Alarms Output Bits for Phase1 | R | --------- | --------- | overVoltage Bit0<br>underVoltage Bit1<br>overCurrent Bit2<br>overCompensation Bit3<br>UnderCompensation Bit4<br>missingPhase Bit5<br>overTHDV Bit6<br>overHDV Bit7<br>overTHDC Bit8<br>overHDC Bit9 | |
| 113E | U16 | Phase Alarms Output Bits for Phase2 | R | --------- | --------- | | |
| 113F | U16 | Phase Alarms Output Bits for Phase3 | R | --------- | --------- | | |

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|---|---|---|---|---|---|---|---|
| 1140 | U16 | Global Alarms Output Bits:<br><br>missingConnector1 Bit0<br>missingConnector2 Bit1<br>missingConnector3 Bit2<br>overCompansation Bit3<br>underCompansation Bit4<br>systemError Bit5<br>overHeatBit Bit6<br>phaseVoltageConnectionError Bit7<br>Changed of step value Bit8<br>warning; Zero of step value Bit9<br>ProtectedModbusEnteranceError Bit10 | R | --------- | --------- | | |
| 1141 | U16 | Step protection types:<br><br>BIT0 : Temperature protection<br>BIT1 : over and under voltage protection<br>BIT2 : protection for THD-V<br>BIT3 : protection for wrong voltage connection<br>BIT4 : protection for if current value is zero on all phases<br>BIT5 : protection for factory settings | R | --------- | --------- | | |
| 1142 | U16 | Warnings for voltage and no current<br><br>If bit0=1 ; there is a current of L1 phase, if bit0=0 ; There is no current in phase L1<br>If bit1=1 ; there is a current of L2 phase, if bit0=0 ; There is no current in phase L2<br>If bit2=1 ; there is a current of L3 phase, if bit0=0 ; There is no current in phase L3<br>If bit3=1 ; there is a voltage in phase L1, if bit1=0 no volatge in phase L1<br>If bit4=1 ; there is a voltage in phase L2, if bit1=0 no volatge in phase L2<br>If bit5=1 ; there is a voltage in phase L3, if bit1=0 no volatge in phase L3<br>If bit6=1 ; one of phases exist, if bit6=0 ; there are all phases<br>If bit7=1 ; phase sequence error, if bit7=0 ;there is no phase sequence error<br>If bit8=1 ; there is a short circuit at between L1 and L2 phases.<br>If bit9=1 ; there is a short circuit at between L2 and L3 phases.<br>If bit10=1 ; there is a short circuit at between L1 and L3 phases.<br>If bit11=1 ; Phase with neutral connection error | R | --------- | --------- | | |
| 1143 | U16 | voltage1 ZeroCrossOverAngle (referance)(everytime 0) | R | --------- | Degree | | |
| 1144 | U16 | current1 ZeroCrossOverAngle (referance between angle)(0-359) | R | --------- | Degree | | |
| 1145 | U16 | voltage2 ZeroCrossOverAngle (referance between angle)(0-359) | R | --------- | Degree | | |
| 1146 | U16 | current2 ZeroCrossOverAngle (referance between angle)(0-359) | R | --------- | Degree | | |
| 1147 | U16 | voltage3 ZeroCrossOverAngle (referance between angle)(0-359) | R | --------- | Degree | | |
| 1148 | U16 | current3 ZeroCrossOverAngle (referance between angle)(0-359) | R | --------- | Degree | | |
| 1149<br>114A | U32 | The steps that are running<br>17-0 steps, 31 Alarm , 30 Fan | R | --------- | --------- | | |
| 114B<br>114C | U32 | The steps that are learned<br>//17-0 steps, 31 The used all steps was learned | R | --------- | --------- | | |
| 114D<br>114E | U32 | Inductors at L1 phase<br>//17-0 steps | R | --------- | --------- | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 114F<br>1150 | U32 | Inductors at L2 phase<br>//17-0 steps | R | ---------<br>--- | ---------<br>--- | | |
| 1151<br>1152 | U32 | Inductors at L3 phase<br>//17-0 steps | R | ---------<br>--- | ---------<br>--- | | |
| 1153<br>1154 | U32 | capacitors at L1 phase<br>//17-0 steps | R | ---------<br>--- | ---------<br>--- | | |
| 1155<br>1156 | U32 | capacitors at L2 phase<br>//17-0 steps | R | ---------<br>--- | ---------<br>--- | | |
| 1157<br>1158 | U32 | capacitors at L3 phase<br>//17-0 steps | R | ---------<br>--- | ---------<br>--- | | |
| 1159<br>115A | U32 | Steps that are ready<br>//17-0 steps | R | ---------<br>--- | ---------<br>--- | | |
| 115B | U16 | recent time Phase1 inductive/Active energy Ratio(%) | R | 0.01 | --- | | |
| 115C | U16 | recent time Phase1 capacitive/Active energy Ratio(%) | R | 0.01 | --- | | |
| 115D | U16 | recent time Phase2 inductive/Active energy Ratio(%) | R | 0.01 | --- | | |
| 115E | U16 | recent time Phase2 capacitive/Active energy Ratio(%) | R | 0.01 | --- | | |
| 115F | U16 | recent time Phase3 inductive/Active energy Ratio(%) | R | 0.01 | --- | | |
| 1160 | U16 | recent time Phase3 capacitive/Active energy Ratio(%) | R | 0.01 | --- | | |
| 1161 | U16 | recent time Phases SUM  inductive/Active energy Ratio(%) | R | 0.01 | --- | | |
| 1162 | U16 | recent time Phases SUM capacitive/Active energy Ratio(%) | R | 0.01 | --- | | |
| 1163 | S16 | Slided inductive ratio bound Value phase1 (%) | R | 0.01 | --- | | |
| 1164 | S16 | Slided capacitive ratio bound Value phase1 (%) | R | 0.01 | --- | | |
| 1165 | S16 | Slided inductive ratio bound Value phase2 (%) | R | 0.01 | --- | | |
| 1166 | S16 | Slided capacitive ratio bound Value phase2 (%) | R | 0.01 | --- | | |
| 1167 | S16 | Slided inductive ratio bound Value phase3 (%) | R | 0.01 | --- | | |
| 1168 | S16 | Slided capacitive ratio bound Value phase3 (%) | R | 0.01 | --- | | |
| 1169 | S16 | Slided inductive ratio real Value phase1 (%) | R | 0.01 | --- | | |
| 116A | S16 | Slided capacitive ratio real Value phase1 (%) | R | 0.01 | --- | | |
| 116B | S16 | Slided inductive ratio real Value phase2 (%) | R | 0.01 | --- | | |
| 116C | S16 | Slided capacitive ratio real Value phase2 (%) | R | 0.01 | --- | | |
| 116D | S16 | Slided inductive ratio real Value phase3 (%) | R | 0.01 | --- | | |
| 116E | S16 | Slided capacitive ratio real Value phase3 (%) | R | 0.01 | --- | | |
| 116F | U16 | step out On time phase 1 (200 msec unit) | R | 5 | second | | |
| 1170 | U16 | step our Off time phase1 (200 msec unit) | R | 5 | second | | |
| 1171 | U16 | step out On time phase 2 (200 msec unit) | R | 5 | second | | |
| 1172 | U16 | step our Off time phase2 (200 msec unit) | R | 5 | second | | |
| 1173 | U16 | step out On time phase 3 (200 msec unit) | R | 5 | second | | |
| 1174 | U16 | step our Off time phase3 (200 msec unit) | R | 5 | second | | |
| 1175 | U16 | step out On time threephases steps (200 msec unit) | R | 5 | second | | |
| 1176 | U16 | step our Off time threephases steps (200 msec unit) | R | 5 | second | | |

## Read 48 bit integer energy table seconder value

| Modbus Address (HEX) | modbus data type | Data Name | Read Write | Multiplier | Unit | Max. Value | Min. Value |
|---|---|---|---|---|---|---|---|
| 2000 | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2001 | U32 | Energy table working time (second) | R | --------- | second | | |
| 2002 | U16 | WattSec total Positive Active Energy Xhi | R | CTRF | | | |
| 2003 | U16 | WattSec total Positive Active Energy Hi | R | CTRF | | | |
| 2004 | U16 | WattSec total Positive Active Energy Low | R | CTRF | watt/sec | | |
| 2005 | U16 | VarSec total Inductive Reactive Energy Xhi | R | CTRF | | | |
| 2006 | U16 | VarSec total Inductive Reactive Energy Hi | R | CTRF | | | |
| 2007 | U16 | VarSec total Inductive Reactive Energy Low | R | CTRF | var/sec | | |
| 2008 | U16 | VarSec total Capacitive Reactive Energy Xhi | R | CTRF | | | |
| 2009 | U16 | VarSec total Capacitive Reactive Energy Hi | R | CTRF | | | |
| 200A | U16 | VarSec total Capacitive Reactive Energy Low | R | CTRF | var/sec | | |
| 200B | U16 | VASec total Appeared Energy Xhi | R | CTRF | | | |
| 200C | U16 | VASec total Appeared Energy Hi | R | CTRF | | | |
| 200D | U16 | VASec total Appeared Energy Low | R | CTRF | VA/sec | | |
| 200E | U16 | WattSec Phase1 Positive Active Energy Xhi | R | CTRF | | | |
| 200F | U16 | WattSec Phase1 Positive Active Energy Hi | R | CTRF | | | |
| 2010 | U16 | WattSec Phase1 Positive Active Energy Low | R | CTRF | watt/sec | | |
| 2011 | U16 | WattSec Phase2 Positive Active Energy Xhi | R | CTRF | | | |
| 2012 | U16 | WattSec Phase2 Positive Active Energy Hi | R | CTRF | | | |
| 2013 | U16 | WattSec Phase2 Positive Active Energy Low | R | CTRF | watt/sec | | |
| 2014 | U16 | WattSec Phase3 Positive Active Energy Xhi | R | CTRF | | | |
| 2015 | U16 | WattSec Phase3 Positive Active Energy Hi | R | CTRF | | | |
| 2016 | U16 | WattSec Phase3 Positive Active Energy Low | R | CTRF | watt/sec | | |
| 2017 | U16 | VarSec Phase1 Inductive Reactive Energy Xhi | R | CTRF | | | |
| 2018 | U16 | VarSec Phase1 Inductive Reactive Energy Hi | R | CTRF | | | |
| 2019 | U16 | VarSec Phase1 Inductive Reactive Energy Low | R | CTRF | var/sec | | |
| 201A | U16 | VarSec Phase2 Inductive Reactive Energy Xhi | R | CTRF | | | |
| 201B | U16 | VarSec Phase2 Inductive Reactive Energy Hi | R | CTRF | | | |
| 201C | U16 | VarSec Phase2 Inductive Reactive Energy Low | R | CTRF | var/sec | | |
| 201D | U16 | VarSec Phase3 Inductive Reactive Energy Xhi | R | CTRF | | | |
| 201E | U16 | VarSec Phase3 Inductive Reactive Energy Hi | R | CTRF | | | |
| 201F | U16 | VarSec Phase3 Inductive Reactive Energy Low | R | CTRF | var/sec | | |
| 2020 | U16 | VarSec Phase1 Capacitive Reactive Energy Xhi | R | CTRF | | | |
| 2021 | U16 | VarSec Phase1 Capacitive Reactive Energy Hi | R | CTRF | | | |
| 2022 | U16 | VarSec Phase1 Capacitive Reactive Energy Low | R | CTRF | var/sec | | |
| 2023 | U16 | VarSec Phase2 Capacitive Reactive Energy Xhi | R | CTRF | | | |
| 2024 | U16 | VarSec Phase2 Capacitive Reactive Energy Hi | R | CTRF | | | |
| 2025 | U16 | VarSec Phase2 Capacitive Reactive Energy Low | R | CTRF | var/sec | | |
| 2026 | U16 | VarSec Phase3 Capacitive Reactive Energy Xhi | R | CTRF | | | |
| 2027 | U16 | VarSec Phase3 Capacitive Reactive Energy Hi | R | CTRF | | | |
| 2028 | U16 | VarSec Phase3 Capacitive Reactive Energy Low | R | CTRF | var/sec | | |
| 2029 | U16 | VASec Phase1 Appeared Energy Xhi | R | CTRF | | | |
| 202A | U16 | VASec Phase1 Appeared Energy Hi | R | CTRF | | | |
| 202B | U16 | VASec Phase1 Appeared Energy Low | R | CTRF | VA/sec | | |
| 202C | U16 | VASec Phase2 Appeared Energy Xhi | R | CTRF | | | |
| 202D | U16 | VASec Phase2 Appeared Energy Hi | R | CTRF | | | |
| 202E | U16 | VASec Phase2 Appeared Energy Low | R | CTRF | VA/sec | | |
| 202F | U16 | VASec Phase3 Appeared Energy Xhi | R | CTRF | | | |
| 2030 | U16 | VASec Phase3 Appeared Energy Hi | R | CTRF | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2031 | U16 | VASec Phase3 Appeared Energy Low | R | CTRF | VA/sec | | |
| 2032 | U16 | Index WattSec total Positive Active Energy Xhi | R/W | CTRF | | 0X07FF | 0X0000 |
| 2033 | U16 | Index WattSec total Positive Active Energy Hi | R/W | CTRF | | 0xFFFF | 0X0000 |
| 2034 | U16 | Index WattSec total Positive Active Energy Low | R/W | CTRF | watt/sec | 0xFFFF | 0X0000 |
| 2035 | U16 | Index VarSec total Inductive Reactive Energy Xhi | R/W | CTRF | | 0X07FF | 0X0000 |
| 2036 | U16 | Index VarSec total Inductive Reactive Energy Hi | R/W | CTRF | | 0xFFFF | 0X0000 |
| 2037 | U16 | Index VarSec total Inductive Reactive Energy Low | R/W | CTRF | var/sec | 0xFFFF | 0X0000 |
| 2038 | U16 | Index VarSec total Capacitive Reactive Energy Xhi | R/W | CTRF | | 0X07FF | 0X0000 |
| 2039 | U16 | Index VarSec total Capacitive Reactive Energy Hi | R/W | CTRF | | 0xFFFF | 0X0000 |
| 203A | U16 | Index VarSec total Capacitive Reactive Energy Low | R/W | CTRF | var/sec | 0xFFFF | 0X0000 |

## Read 32 bit energy table Watt/h

| Modbus Address (HEX) | modbus data type | Data Name | Read Write | Multiplier | Unit | Max. Value | Min. Value |
|---|---|---|---|---|---|---|---|
| 2100 | U32 | Energy table working time (second) | R | --------- | second | | |
| 2101 | | | | | | | |
| 2102 | U32 | WattHour total Positive Active Energy | R | CTRF | Watt / Hour | | |
| 2103 | | | | | | | |
| 2104 | U32 | VarHour total Inductive Reactive Energy | R | CTRF | Var/Hour | | |
| 2105 | | | | | | | |
| 2106 | U32 | VarHour total Capacitive Reactive Energy | R | CTRF | Var/Hour | | |
| 2107 | | | | | | | |
| 2108 | U32 | VAHour total Appeared Energy | R | CTRF | VA/Hour | | |
| 2109 | | | | | | | |
| 210A | U32 | WattHour Phase1 Positive Active Energy | R | CTRF | Watt / Hour | | |
| 210B | | | | | | | |
| 210C | U32 | WattHour Phase2 Positive Active Energy | R | CTRF | Watt / Hour | | |
| 210D | | | | | | | |
| 210E | U32 | WattHour Phase3 Positive Active Energy | R | CTRF | Watt / Hour | | |
| 210F | | | | | | | |
| 2110 | U32 | VarHour Phase1 Inductive Reactive Energy | R | CTRF | Var/Hour | | |
| 2111 | | | | | | | |
| 2112 | U32 | VarHour Phase2 Inductive Reactive Energy | R | CTRF | Var/Hour | | |
| 2113 | | | | | | | |
| 2114 | U32 | VarHour Phase3 Inductive Reactive Energy | R | CTRF | Var/Hour | | |
| 2115 | | | | | | | |
| 2116 | U32 | VarHour Phase1 Capacitive Reactive Energy | R | CTRF | Var/Hour | | |
| 2117 | | | | | | | |
| 2118 | U32 | VarHour Phase2 Capacitive Reactive Energy | R | CTRF | Var/Hour | | |
| 2119 | | | | | | | |
| 211A | U32 | VarHour Phase3 Capacitive Reactive Energy | R | CTRF | Var/Hour | | |
| 211B | | | | | | | |
| 211C | U32 | VAHour Phase1 Appeared Energy | R | CTRF | VA/Hour | | |
| 211D | | | | | | | |
| 211E | U32 | VAHour Phase2 Appeared Energy | R | CTRF | VA/Hour | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 211F | | | | | | | |
| 2120 | U32 | VAHour Phase3 Appeared Energy | R | CTRF | VA/Hour | | |
| 2121 | | | | | | | |
| 2122 | U32 | Index WattHour total Positive Active Energy | R/W | CTRF | Watt / Hour | 0x91A2B3C4 | 0X0000001 |
| 2123 | | | | | | | |
| 2124 | U32 | Index VarHour total Inductive Reactive Energy | R/W | CTRF | Var/Hour | 0x91A2B3C4 | 0X0000001 |
| 2125 | | | | | | | |
| 2126 | U32 | Index VarSec total Capacitive Reactive Energy | R/W | CTRF | Var/Hour | 0x91A2B3C4 | 0X0000001 |
| 2127 | | | | | | | |

## Read 64 bit energy table Kwatt/h

| Modbus Address (HEX) | modbus data type | Data Name | Read Write | Multiplier | Unit | Max. Value | Min. Value |
|---|---|---|---|---|---|---|---|
| 2200 | U32 | Energy table working time (second) | R | --------- | second | | |
| 2201 | | | | | | | |
| 2202 | DOUBLE(64 bit) | KwattHour total Positive Active Energy | R | --------- | Kwatt/h | | |
| 2203 | | | | | | | |
| 2204 | | | | | | | |
| 2205 | | | | | | | |
| 2206 | DOUBLE(64 bit) | KvarHour total Inductive Reactive Energy | R | --------- | Kvar/h | | |
| 2207 | | | | | | | |
| 2208 | | | | | | | |
| 2209 | | | | | | | |
| 220A | DOUBLE(64 bit) | KvarHour total Capacitive Reactive Energy | R | --------- | Kvar/h | | |
| 220B | | | | | | | |
| 220C | | | | | | | |
| 220D | | | | | | | |
| 220E | DOUBLE(64 bit) | VAHour total Appeared Energy | R | --------- | KVA/H | | |
| 220F | | | | | | | |
| 2210 | | | | | | | |
| 2211 | | | | | | | |
| 2212 | DOUBLE(64 bit) | KwattHour Phase1 Positive Active Energy | R | --------- | Kwatt/h | | |
| 2213 | | | | | | | |
| 2214 | | | | | | | |
| 2215 | | | | | | | |
| 2216 | DOUBLE(64 bit) | KwattHour Phase2 Positive Active Energy | R | --------- | Kwatt/h | | |
| 2217 | | | | | | | |
| 2218 | | | | | | | |
| 2219 | | | | | | | |
| 221A | DOUBLE(64 bit) | KwattHour Phase3 Positive Active Energy | R | --------- | Kwatt/h | | |
| 221B | | | | | | | |
| 221C | | | | | | | |
| 221D | | | | | | | |
| 221E | DOUBLE(64 bit) | KvarHour Phase1 Inductive Reactive Energy | R | --------- | Kvar/h | | |
| 221F | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2220 | | | | | | | |
| 2221 | | | | | | | |
| 2222 | DOUBLE(64 bit) | KvarHour Phase2 Inductive Reactive Energy | R | --------- | Kvar/h | | |
| 2223 | | | | | | | |
| 2224 | | | | | | | |
| 2225 | | | | | | | |
| 2226 | DOUBLE(64 bit) | KvarHour Phase3 Inductive Reactive Energy | R | --------- | Kvar/h | | |
| 2227 | | | | | | | |
| 2228 | | | | | | | |
| 2229 | | | | | | | |
| 222A | DOUBLE(64 bit) | KvarHour Phase1 Capacitive Reactive Energy | R | --------- | Kvar/h | | |
| 222B | | | | | | | |
| 222C | | | | | | | |
| 222D | | | | | | | |
| 222E | DOUBLE(64 bit) | KvarHour Phase2 Capacitive Reactive Energy | R | --------- | Kvar/h | | |
| 222F | | | | | | | |
| 2230 | | | | | | | |
| 2231 | | | | | | | |
| 2232 | DOUBLE(64 bit) | KvarHour Phase3 Capacitive Reactive Energy | R | --------- | Kvar/h | | |
| 2233 | | | | | | | |
| 2234 | | | | | | | |
| 2235 | | | | | | | |
| 2236 | DOUBLE(64 bit) | KVAHour Phase1 Appeared Energy | R | --------- | Kvar/h | | |
| 2237 | | | | | | | |
| 2238 | | | | | | | |
| 2239 | | | | | | | |
| 223A | DOUBLE(64 bit) | KVAHour Phase2 Appeared Energy | R | --------- | Kvar/h | | |
| 223B | | | | | | | |
| 223C | | | | | | | |
| 223D | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 223E | DOUBLE(64 bit) | KVAHour Phase3 Appeared Energy | R | --------- | Kvar/h | | |
| 223F | | | | | | | |
| 2240 | | | | | | | |
| 2241 | | | | | | | |
| 2242 | DOUBLE(64 bit) | INDEX KwattHour total Positive Active Energy | R | --------- | Kwatt/h | CTRF x 2443359,172 | 1 |
| 2243 | | | | | | | |
| 2244 | | | | | | | |
| 2245 | | | | | | | |
| 2246 | DOUBLE(64 bit) | INDEX KvarHour total Inductive Reactive Energy | R | --------- | Kvar/h | CTRF x 2443359,172 | 1 |
| 2247 | | | | | | | |
| 2248 | | | | | | | |
| 2249 | | | | | | | |
| 224A | DOUBLE(64 bit) | INDEX KvarHour total Capacitive Reactive Energy | R | --------- | Kvar/h | CTRF x 2443359,172 | 1 |
| 224B | | | | | | | |
| 224C | | | | | | | |
| 224D | | | | | | | |

| Modbus Address (HEX) | modbus data type | Data Name | Read Write | Multiplier | Unit | Max. Value | Min. Value |
|---|---|---|---|---|---|---|---|
| 3000 | S16 | Phase1 Value of Cap that will enter by order (seconder value x 10) | R/W | CTRF x 0.1 | Var | 3500 | -3500 |
| 3001 | S16 | Phase2 Value of Cap that will enter by order (seconder value x 10) | R/W | CTRF x 0.1 | Var | 3500 | -3500 |
| 3002 | S16 | Phase3 Value of Cap that will enter by order (seconder value x 10) | R/W | CTRF x 0.1 | Var | 3500 | -3500 |
| 3003 | U16 | step Order that cap value will record on. | R/W | --------- | --------- | used step number | 1 |
| 3004 | U16 | step value reset order<br>1-18 for clear single step<br>0 for clear all steps values | R/W | --------- | --------- | used step number | 0 |
| 3005 | U16 | manual mode register<br>1-manual 0-auto | R/W | --------- | --------- | 1 | 0 |
| 3006 | U16 | steps toogle order register<br>1-18 for step toogle (if step not avail, command not accept) | R/W | --------- | --------- | used step number | 1 |
| 3007 | U16 | device user define step order (3-device max step number) | R/W | --------- | --------- | device max step number | 3 |
| 3008 | U16 | header of first learned Values of Step1 | R | --------- | --------- | | |
| 3009 | S16 | Phase1 values of first learned Values of Step1 | R | CTRF*0.1 | Var | | |
| 300A | S16 | Phase2 values of first learned Values of Step1 | R | CTRF*0.1 | Var | | |
| 300B | S16 | Phase3 values of first learned Values of Step1 | R | CTRF*0.1 | Var | | |
| 300C | U16 | header of first learned Values of Step2 | R | --------- | --------- | | |
| 300D | S16 | Phase1 values of first learned Values of Step2 | R | CTRF*0.1 | Var | | |
| 300E | S16 | Phase2 values of first learned Values of Step2 | R | CTRF*0.1 | Var | | |
| 300F | S16 | Phase3 values of first learned Values of Step2 | R | CTRF*0.1 | Var | | |
| 3010 | U16 | header of first learned Values of Step3 | R | --------- | --------- | | |
| 3011 | S16 | Phase1 values of first learned Values of Step3 | R | CTRF*0.1 | Var | | |
| 3012 | S16 | Phase2 values of first learned Values of Step3 | R | CTRF*0.1 | Var | | |
| 3013 | S16 | Phase3 values of first learned Values of Step3 | R | CTRF*0.1 | Var | | |
| 3014 | U16 | header of first learned Values of Step4 | R | --------- | --------- | | |
| 3015 | S16 | Phase1 values of first learned Values of Step4 | R | CTRF*0.1 | Var | | |
| 3016 | S16 | Phase2 values of first learned Values of Step4 | R | CTRF*0.1 | Var | | |
| 3017 | S16 | Phase3 values of first learned Values of Step4 | R | CTRF*0.1 | Var | | |
| 3018 | U16 | header of first learned Values of Step5 | R | --------- | --------- | | |
| 3019 | S16 | Phase1 values of first learned Values of Step5 | R | CTRF*0.1 | Var | | |
| 301A | S16 | Phase2 values of first learned Values of Step5 | R | CTRF*0.1 | Var | | |
| 301B | S16 | Phase3 values of first learned Values of Step5 | R | CTRF*0.1 | Var | | |
| 301C | U16 | header of first learned Values of Step6 | R | --------- | --------- | | |
| 301D | S16 | Phase1 values of first learned Values of Step6 | R | CTRF*0.1 | Var | | |
| 301E | S16 | Phase2 values of first learned Values of Step6 | R | CTRF*0.1 | Var | | |
| 301F | S16 | Phase3 values of first learned Values of Step6 | R | CTRF*0.1 | Var | | |
| 3020 | U16 | header of first learned Values of Step7 | R | --------- | --------- | | |
| 3021 | S16 | Phase1 values of first learned Values of Step7 | R | CTRF*0.1 | Var | | |
| 3022 | S16 | Phase2 values of first learned Values of Step7 | R | CTRF*0.1 | Var | | |
| 3023 | S16 | Phase3 values of first learned Values of Step7 | R | CTRF*0.1 | Var | | |
| 3024 | U16 | header of first learned Values of Step8 | R | --------- | --------- | | |
| 3025 | S16 | Phase1 values of first learned Values of Step8 | R | CTRF*0.1 | Var | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3026 | S16 | Phase2 values of first learned Values of Step8 | R | CTRF*0.1 | Var | | |
| 3027 | S16 | Phase3 values of first learned Values of Step8 | R | CTRF*0.1 | Var | | |
| 3028 | U16 | header of first learned Values of Step9 | R | --------- | --------- | | |
| 3029 | S16 | Phase1 values of first learned Values of Step9 | R | CTRF*0.1 | Var | | |
| 302A | S16 | Phase2 values of first learned Values of Step9 | R | CTRF*0.1 | Var | | |
| 302B | S16 | Phase3 values of first learned Values of Step9 | R | CTRF*0.1 | Var | | |
| 302C | U16 | header of first learned Values of Step10 | R | --------- | --------- | | |
| 302D | S16 | Phase1 values of first learned Values of Step10 | R | CTRF*0.1 | Var | | |
| 302E | S16 | Phase2 values of first learned Values of Step10 | R | CTRF*0.1 | Var | | |
| 302F | S16 | Phase3 values of first learned Values of Step10 | R | CTRF*0.1 | Var | | |
| 3030 | U16 | header of first learned Values of Step11 | R | --------- | --------- | | |
| 3031 | S16 | Phase1 values of first learned Values of Step11 | R | CTRF*0.1 | Var | | |
| 3032 | S16 | Phase2 values of first learned Values of Step11 | R | CTRF*0.1 | Var | | |
| 3033 | S16 | Phase3 values of first learned Values of Step11 | R | CTRF*0.1 | Var | | |
| 3034 | U16 | header of first learned Values of Step12 | R | --------- | --------- | | |
| 3035 | S16 | Phase1 values of first learned Values of Step12 | R | CTRF*0.1 | Var | | |
| 3036 | S16 | Phase2 values of first learned Values of Step12 | R | CTRF*0.1 | Var | | |
| 3037 | S16 | Phase3 values of first learned Values of Step12 | R | CTRF*0.1 | Var | | |
| 3038 | U16 | header of first learned Values of Step13 | R | --------- | --------- | | |
| 3039 | S16 | Phase1 values of first learned Values of Step13 | R | CTRF*0.1 | Var | | |
| 303A | S16 | Phase2 values of first learned Values of Step13 | R | CTRF*0.1 | Var | | |
| 303B | S16 | Phase3 values of first learned Values of Step13 | R | CTRF*0.1 | Var | | |
| 303C | U16 | header of first learned Values of Step14 | R | --------- | --------- | | |
| 303D | S16 | Phase1 values of first learned Values of Step14 | R | CTRF*0.1 | Var | | |
| 303E | S16 | Phase2 values of first learned Values of Step14 | R | CTRF*0.1 | Var | | |
| 303F | S16 | Phase3 values of first learned Values of Step14 | R | CTRF*0.1 | Var | | |
| 3040 | U16 | header of first learned Values of Step15 | R | --------- | --------- | | |
| 3041 | S16 | Phase1 values of first learned Values of Step15 | R | CTRF*0.1 | Var | | |
| 3042 | S16 | Phase2 values of first learned Values of Step15 | R | CTRF*0.1 | Var | | |
| 3043 | S16 | Phase3 values of first learned Values of Step15 | R | CTRF*0.1 | Var | | |
| 3044 | U16 | header of first learned Values of Step16 | R | --------- | --------- | | |
| 3045 | S16 | Phase1 values of first learned Values of Step16 | R | CTRF*0.1 | Var | | |
| 3046 | S16 | Phase2 values of first learned Values of Step16 | R | CTRF*0.1 | Var | | |
| 3047 | S16 | Phase3 values of first learned Values of Step16 | R | CTRF*0.1 | Var | | |
| 3048 | U16 | header of first learned Values of Step17 | R | --------- | --------- | | |
| 3049 | S16 | Phase1 values of first learned Values of Step17 | R | CTRF*0.1 | Var | | |
| 304A | S16 | Phase2 values of first learned Values of Step17 | R | CTRF*0.1 | Var | | |
| 304B | S16 | Phase3 values of first learned Values of Step17 | R | CTRF*0.1 | Var | | |
| 304C | U16 | header of first learned Values of Step18 | R | --------- | --------- | | |
| 304D | S16 | Phase1 values of first learned Values of Step18 | R | CTRF*0.1 | Var | | |
| 304E | S16 | Phase2 values of first learned Values of Step18 | R | CTRF*0.1 | Var | | |
| 304F | S16 | Phase3 values of first learned Values of Step18 | R | CTRF*0.1 | Var | | |

| Modbus Address (HEX) | modbus data type | Data Name | Read Write | Multiplier | Unit | Max. Value | Min. Value |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3102 | U16 | return to old value step order | R/W | --------- | --------- | used step number | 0 |
| 3103 | U16 | update the new value step order | R/W | --------- | --------- | used step number | 0 |
| 3104 | U32 | changed steps | R | --------- | --------- | | |
| 3105 | | | | | | | |
| 3106 | U32 | zero steps | R | --------- | --------- | | |
| 3107 | | | | | | | |
| 3108 | U16 | header of continious learned Values of Step1 | R | --------- | --------- | | |
| 3109 | S16 | Phase1 values of continious learned Values of Step1 | R | CTRF*0.1 | Var | | |
| 310A | S16 | Phase2 values of continious learned Values of Step1 | R | CTRF*0.1 | Var | | |
| 310B | S16 | Phase3 values of continious learned Values of Step1 | R | CTRF*0.1 | Var | | |
| 310C | U16 | header of continious learned Values of Step2 | R | --------- | --------- | | |
| 310D | S16 | Phase1 values of continious learned Values of Step2 | R | CTRF*0.1 | Var | | |
| 310E | S16 | Phase2 values of continious learned Values of Step2 | R | CTRF*0.1 | Var | | |
| 310F | S16 | Phase3 values of continious learned Values of Step2 | R | CTRF*0.1 | Var | | |
| 3110 | U16 | header of continious learned Values of Step3 | R | --------- | --------- | | |
| 3111 | S16 | Phase1 values of continious learned Values of Step3 | R | CTRF*0.1 | Var | | |
| 3112 | S16 | Phase2 values of continious learned Values of Step3 | R | CTRF*0.1 | Var | | |
| 3113 | S16 | Phase3 values of continious learned Values of Step3 | R | CTRF*0.1 | Var | | |
| 3114 | U16 | header of continious learned Values of Step4 | R | --------- | --------- | | |
| 3115 | S16 | Phase1 values of continious learned Values of Step4 | R | CTRF*0.1 | Var | | |
| 3116 | S16 | Phase2 values of continious learned Values of Step4 | R | CTRF*0.1 | Var | | |
| 3117 | S16 | Phase3 values of continious learned Values of Step4 | R | CTRF*0.1 | Var | | |
| 3118 | U16 | header of continious learned Values of Step5 | R | --------- | --------- | | |
| 3119 | S16 | Phase1 values of continious learned Values of Step5 | R | CTRF*0.1 | Var | | |
| 311A | S16 | Phase2 values of continious learned Values of Step5 | R | CTRF*0.1 | Var | | |
| 311B | S16 | Phase3 values of continious learned Values of Step5 | R | CTRF*0.1 | Var | | |
| 311C | U16 | header of continious learned Values of Step6 | R | --------- | --------- | | |
| 311D | S16 | Phase1 values of continious learned Values of Step6 | R | CTRF*0.1 | Var | | |
| 311E | S16 | Phase2 values of continious learned Values of Step6 | R | CTRF*0.1 | Var | | |
| 311F | S16 | Phase3 values of continious learned Values of Step6 | R | CTRF*0.1 | Var | | |
| 3120 | U16 | header of continious learned Values of Step7 | R | --------- | --------- | | |
| 3121 | S16 | Phase1 values of continious learned Values of Step7 | R | CTRF*0.1 | Var | | |
| 3122 | S16 | Phase2 values of continious learned Values of Step7 | R | CTRF*0.1 | Var | | |
| 3123 | S16 | Phase3 values of continious learned Values of Step7 | R | CTRF*0.1 | Var | | |
| 3124 | U16 | header of continious learned Values of Step8 | R | --------- | --------- | | |
| 3125 | S16 | Phase1 values of continious learned Values of Step8 | R | CTRF*0.1 | Var | | |
| 3126 | S16 | Phase2 values of continious learned Values of Step8 | R | CTRF*0.1 | Var | | |
| 3127 | S16 | Phase3 values of continious learned Values of Step8 | R | CTRF*0.1 | Var | | |
| 3128 | U16 | header of continious learned Values of Step9 | R | --------- | --------- | | |
| 3129 | S16 | Phase1 values of continious learned Values of Step9 | R | CTRF*0.1 | Var | | |
| 312A | S16 | Phase2 values of continious learned Values of Step9 | R | CTRF*0.1 | Var | | |
| 312B | S16 | Phase3 values of continious learned Values of Step9 | R | CTRF*0.1 | Var | | |
| 312C | U16 | header of continious learned Values of Step10 | R | --------- | --------- | | |
| 312D | S16 | Phase1 values of continious learned Values of Step10 | R | CTRF*0.1 | Var | | |
| 312E | S16 | Phase2 values of continious learned Values of Step10 | R | CTRF*0.1 | Var | | |
| 312F | S16 | Phase3 values of continious learned Values of Step10 | R | CTRF*0.1 | Var | | |
| 3130 | U16 | header of continious learned Values of Step11 | R | --------- | --------- | | |
| 3131 | S16 | Phase1 values of continious learned Values of Step11 | R | CTRF*0.1 | Var | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3132 | S16 | Phase2 values of continious learned Values of Step11 | R | CTRF*0.1 | Var | | |
| 3133 | S16 | Phase3 values of continious learned Values of Step11 | R | CTRF*0.1 | Var | | |
| 3134 | U16 | header of continious learned Values of Step12 | R | --------- | --------- | | |
| 3135 | S16 | Phase1 values of continious learned Values of Step12 | R | CTRF*0.1 | Var | | |
| 3136 | S16 | Phase2 values of continious learned Values of Step12 | R | CTRF*0.1 | Var | | |
| 3137 | S16 | Phase3 values of continious learned Values of Step12 | R | CTRF*0.1 | Var | | |
| 3138 | U16 | header of continious learned Values of Step13 | R | --------- | --------- | | |
| 3139 | S16 | Phase1 values of continious learned Values of Step13 | R | CTRF*0.1 | Var | | |
| 313A | S16 | Phase2 values of continious learned Values of Step13 | R | CTRF*0.1 | Var | | |
| 313B | S16 | Phase3 values of continious learned Values of Step13 | R | CTRF*0.1 | Var | | |
| 313C | U16 | header of continious learned Values of Step14 | R | --------- | --------- | | |
| 313D | S16 | Phase1 values of continious learned Values of Step14 | R | CTRF*0.1 | Var | | |
| 313E | S16 | Phase2 values of continious learned Values of Step14 | R | CTRF*0.1 | Var | | |
| 313F | S16 | Phase3 values of continious learned Values of Step14 | R | CTRF*0.1 | Var | | |
| 3140 | U16 | header of continious learned Values of Step15 | R | --------- | --------- | | |
| 3141 | S16 | Phase1 values of continious learned Values of Step15 | R | CTRF*0.1 | Var | | |
| 3142 | S16 | Phase2 values of continious learned Values of Step15 | R | CTRF*0.1 | Var | | |
| 3143 | S16 | Phase3 values of continious learned Values of Step15 | R | CTRF*0.1 | Var | | |
| 3144 | U16 | header of continious learned Values of Step16 | R | --------- | --------- | | |
| 3145 | S16 | Phase1 values of continious learned Values of Step16 | R | CTRF*0.1 | Var | | |
| 3146 | S16 | Phase2 values of continious learned Values of Step16 | R | CTRF*0.1 | Var | | |
| 3147 | S16 | Phase3 values of continious learned Values of Step16 | R | CTRF*0.1 | Var | | |
| 3148 | U16 | header of continious learned Values of Step17 | R | --------- | --------- | | |
| 3149 | S16 | Phase1 values of continious learned Values of Step17 | R | CTRF*0.1 | Var | | |
| 314A | S16 | Phase2 values of continious learned Values of Step17 | R | CTRF*0.1 | Var | | |
| 314B | S16 | Phase3 values of continious learned Values of Step17 | R | CTRF*0.1 | Var | | |
| 314C | U16 | header of continious learned Values of Step18 | R | --------- | --------- | | |
| 314D | S16 | Phase1 values of continious learned Values of Step18 | R | CTRF*0.1 | Var | | |
| 314E | S16 | Phase2 values of continious learned Values of Step18 | R | CTRF*0.1 | Var | | |
| 314F | S16 | Phase3 values of continious learned Values of Step18 | R | CTRF*0.1 | Var | | |

| Modbus Address (HEX) | modbus data type | Data Name | Read Write | Multiplier | Unit | Max. Value | Min. Value |
|---|---|---|---|---|---|---|---|
| 3200<br>3201 | Float (32bit) | Phase1 Value of Cap that will enter by order | R/W | CTRF | Var | 350.0 | -350.0 |
| 3202<br>3203 | Float (32bit) | Phase2 Value of Cap that will enter by order | R/W | CTRF | Var | 350.0 | -350.0 |
| 3204<br>3205 | Float (32bit) | Phase3 Value of Cap that will enter by order | R/W | CTRF | Var | 350.0 | -350.0 |
| 3206 | U16 | step Order that cap value will record on. | R/W | --------- | --------- | used step number | 1 |
| 3207 | U16 | step value reset order<br>1-18 for clear single step<br>0 for clear all steps values | R/W | --------- | --------- | used step number | 0 |
| 3208 | U16 | manuel mode register<br>1-manuel 0-otomatic | R/W | --------- | --------- | 1 | 0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3209 | U16 | steps toogle order register<br>1-18 for step toogle (if step not avail, command not accept) | R/W | --------- | --------- | used step number | 1 |
| 320A | U16 | device user define step order (3-device max step number) | R/W | --------- | --------- | device max step number | 3 |
| 320B | U16 | header of first learned Values of Step1 | R | --------- | --------- | | |
| 320C | Float (32bit) | Phase1 values of first learned Values of Step1 | R | CTRF | Var | | |
| 320D | | | | | | | |
| 320E | Float (32bit) | Phase2 values of first learned Values of Step1 | R | CTRF | Var | | |
| 320F | | | | | | | |
| 3210 | Float (32bit) | Phase3 values of first learned Values of Step1 | R | CTRF | Var | | |
| 3211 | | | | | | | |
| 3212 | U16 | header of first learned Values of Step2 | R | --------- | --------- | | |
| 3213 | Float (32bit) | Phase1 values of first learned Values of Step2 | R | CTRF | Var | | |
| 3214 | | | | | | | |
| 3215 | Float (32bit) | Phase2 values of first learned Values of Step2 | R | CTRF | Var | | |
| 3216 | | | | | | | |
| 3217 | Float (32bit) | Phase3 values of first learned Values of Step2 | R | CTRF | Var | | |
| 3218 | | | | | | | |
| 3219 | U16 | header of first learned Values of step3 | R | --------- | --------- | | |
| 321A | Float (32bit) | Phase1 values of first learned Values of step3 | R | CTRF | Var | | |
| 321B | | | | | | | |
| 321C | Float (32bit) | Phase2 values of first learned Values of step3 | R | CTRF | Var | | |
| 321D | | | | | | | |
| 321E | Float (32bit) | Phase3 values of first learned Values of step3 | R | CTRF | Var | | |
| 321F | | | | | | | |
| 3220 | U16 | header of first learned Values of Step4 | R | --------- | --------- | | |
| 3221 | Float (32bit) | Phase1 values of first learned Values of Step4 | R | CTRF | Var | | |
| 3222 | | | | | | | |
| 3223 | Float (32bit) | Phase2 values of first learned Values of Step4 | R | CTRF | Var | | |
| 3224 | | | | | | | |
| 3225 | Float (32bit) | Phase3 values of first learned Values of Step4 | R | CTRF | Var | | |
| 3226 | | | | | | | |
| 3227 | U16 | header of first learned Values of Step5 | R | --------- | --------- | | |
| 3228 | Float (32bit) | Phase1 values of first learned Values of Step5 | R | CTRF | Var | | |
| 3229 | | | | | | | |
| 322A | Float (32bit) | Phase2 values of first learned Values of Step5 | R | CTRF | Var | | |
| 322B | | | | | | | |
| 322C | Float (32bit) | Phase3 values of first learned Values of Step5 | R | CTRF | Var | | |
| 322D | | | | | | | |
| 322E | U16 | header of first learned Values of Step6 | R | --------- | --------- | | |
| 322F | Float (32bit) | Phase1 values of first learned Values of Step6 | R | CTRF | Var | | |
| 3230 | | | | | | | |
| 3231 | Float (32bit) | Phase2 values of first learned Values of Step6 | R | CTRF | Var | | |
| 3232 | | | | | | | |
| 3233 | Float (32bit) | Phase3 values of first learned Values of Step6 | R | CTRF | Var | | |
| 3234 | | | | | | | |
| 3235 | U16 | header of first learned Values of Step7 | R | --------- | --------- | | |
| 3236 | Float (32bit) | Phase1 values of first learned Values of Step7 | R | CTRF | Var | | |
| 3237 | | | | | | | |

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|---|---|---|---|---|---|---|---|
| 3238 | Float (32bit) | Phase2 values of first learned Values of Step7 | R | CTRF | Var | | |
| 3239 | | | | | | | |
| 323A | Float (32bit) | Phase3 values of first learned Values of Step7 | R | CTRF | Var | | |
| 323B | | | | | | | |
| 323C | U16 | header of first learned Values of Step8 | R | --- | --- | | |
| 323D | Float (32bit) | Phase1 values of first learned Values of Step8 | R | CTRF | Var | | |
| 323E | | | | | | | |
| 323F | Float (32bit) | Phase2 values of first learned Values of Step8 | R | CTRF | Var | | |
| 3240 | | | | | | | |
| 3241 | Float (32bit) | Phase3 values of first learned Values of Step8 | R | CTRF | Var | | |
| 3242 | | | | | | | |
| 3243 | U16 | header of first learned Values of Step9 | R | --- | --- | | |
| 3244 | Float (32bit) | Phase1 values of first learned Values of Step9 | R | CTRF | Var | | |
| 3245 | | | | | | | |
| 3246 | Float (32bit) | Phase2 values of first learned Values of Step9 | R | CTRF | Var | | |
| 3247 | | | | | | | |
| 3248 | Float (32bit) | Phase3 values of first learned Values of Step9 | R | CTRF | Var | | |
| 3249 | | | | | | | |
| 324A | U16 | header of first learned Values of Step10 | R | --- | --- | | |
| 324B | Float (32bit) | Phase1 values of first learned Values of Step10 | R | CTRF | Var | | |
| 324C | | | | | | | |
| 324D | Float (32bit) | Phase2 values of first learned Values of Step10 | R | CTRF | Var | | |
| 324E | | | | | | | |
| 324F | Float (32bit) | Phase3 values of first learned Values of Step10 | R | CTRF | Var | | |
| 3250 | | | | | | | |
| 3251 | U16 | header of first learned Values of Step11 | R | --- | --- | | |
| 3252 | Float (32bit) | Phase1 values of first learned Values of Step11 | R | CTRF | Var | | |
| 3253 | | | | | | | |
| 3254 | Float (32bit) | Phase2 values of first learned Values of Step11 | R | CTRF | Var | | |
| 3255 | | | | | | | |
| 3256 | Float (32bit) | Phase3 values of first learned Values of Step11 | R | CTRF | Var | | |
| 3257 | | | | | | | |
| 3258 | U16 | header of first learned Values of Step12 | R | --- | --- | | |
| 3259 | Float (32bit) | Phase1 values of first learned Values of Step12 | R | CTRF | Var | | |
| 325A | | | | | | | |
| 325B | Float (32bit) | Phase2 values of first learned Values of Step12 | R | CTRF | Var | | |
| 325C | | | | | | | |
| 325D | Float (32bit) | Phase3 values of first learned Values of Step12 | R | CTRF | Var | | |
| 325E | | | | | | | |
| 325F | U16 | header of first learned Values of Step13 | R | --- | --- | | |
| 3260 | Float (32bit) | Phase1 values of first learned Values of Step13 | R | CTRF | Var | | |
| 3261 | | | | | | | |
| 3262 | Float (32bit) | Phase2 values of first learned Values of Step13 | R | CTRF | Var | | |
| 3263 | | | | | | | |
| 3264 | Float (32bit) | Phase3 values of first learned Values of Step13 | R | CTRF | Var | | |
| 3265 | | | | | | | |
| 3266 | U16 | header of first learned Values of Step14 | R | --- | --- | | |
| 3267 | Float (32bit) | Phase1 values of first learned Values of Step14 | R | CTRF | Var | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3268 | | | | | | | |
| 3269 | Float (32bit) | Phase2 values of first learned Values of Step14 | R | CTRF | Var | | |
| 326A | | | | | | | |
| 326B | Float (32bit) | Phase3 values of first learned Values of Step14 | R | CTRF | Var | | |
| 326C | | | | | | | |
| 326D | U16 | header of first learned Values of Step15 | R | --------- | --------- | | |
| 326E | Float (32bit) | Phase1 values of first learned Values of Step15 | R | CTRF | Var | | |
| 326F | | | | | | | |
| 3270 | Float (32bit) | Phase2 values of first learned Values of Step15 | R | CTRF | Var | | |
| 3271 | | | | | | | |
| 3272 | Float (32bit) | Phase3 values of first learned Values of Step15 | R | CTRF | Var | | |
| 3273 | | | | | | | |
| 3274 | U16 | header of first learned Values of Step16 | R | --------- | --------- | | |
| 3275 | Float (32bit) | Phase1 values of first learned Values of Step16 | R | CTRF | Var | | |
| 3276 | | | | | | | |
| 3277 | Float (32bit) | Phase2 values of first learned Values of Step16 | R | CTRF | Var | | |
| 3278 | | | | | | | |
| 3279 | Float (32bit) | Phase3 values of first learned Values of Step16 | R | CTRF | Var | | |
| 327A | | | | | | | |
| 327B | U16 | header of first learned Values of Step17 | R | --------- | --------- | | |
| 327C | Float (32bit) | Phase1 values of first learned Values of Step17 | R | CTRF | Var | | |
| 327D | | | | | | | |
| 327E | Float (32bit) | Phase2 values of first learned Values of Step17 | R | CTRF | Var | | |
| 327F | | | | | | | |
| 3280 | Float (32bit) | Phase3 values of first learned Values of Step17 | R | CTRF | Var | | |
| 3281 | | | | | | | |
| 3282 | U16 | header of first learned Values of Step18 | R | --------- | --------- | | |
| 3283 | Float (32bit) | Phase1 values of first learned Values of Step18 | R | CTRF | Var | | |
| 3284 | | | | | | | |
| 3285 | Float (32bit) | Phase2 values of first learned Values of Step18 | R | CTRF | Var | | |
| 3286 | | | | | | | |
| 3287 | Float (32bit) | Phase3 values of first learned Values of Step18 | R | CTRF | Var | | |
| 3288 | | | | | | | |

| Modbus Address (HEX) | modbus data type | Data Name | Read Write | Multiplier | Unit | Max. Value | Min. Value |
|---|---|---|---|---|---|---|---|
| 3305 | U16 | return to old value step order | R/W | --------- | --------- | used step number | 0 |
| 3306 | U16 | update the new value step order | R/W | --------- | --------- | used step number | 0 |
| 3307 | U32 | changed steps | R | --------- | --------- | | |
| 3308 | | | | | | | |
| 3309 | U32 | zero steps | R | --------- | --------- | | |
| 330A | | | | | | | |
| 330B | U16 | header of continious learned Values of Step1 | R | --------- | --------- | | |
| 330C | Float (32bit) | Phase1 values of continious learned Values of Step1 | R | CTRF | Var | | |

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|---|---|---|---|---|---|---|---|
| 330D | | | | | | | |
| 330E | Float (33bit) | Phase2 values of continious learned Values of Step1 | R | CTRF | Var | | |
| 330F | | | | | | | |
| 3310 | Float (32bit) | Phase3 values of continious learned Values of Step1 | R | CTRF | Var | | |
| 3311 | | | | | | | |
| 3312 | U16 | header of continious learned Values of Step2 | R | --------- | --------- | | |
| 3313 | Float (32bit) | Phase1 values of continious learned Values of Step2 | R | CTRF | Var | | |
| 3314 | | | | | | | |
| 3315 | Float (32bit) | Phase2 values of continious learned Values of Step2 | R | CTRF | Var | | |
| 3316 | | | | | | | |
| 3317 | Float (32bit) | Phase3 values of continious learned Values of Step2 | R | CTRF | Var | | |
| 3318 | | | | | | | |
| 3319 | U16 | header of continious learned Values of step3 | R | --------- | --------- | | |
| 331A | Float (32bit) | Phase1 values of continious learned Values of step3 | R | CTRF | Var | | |
| 331B | | | | | | | |
| 331C | Float (32bit) | Phase2 values of continious learned Values of step3 | R | CTRF | Var | | |
| 331D | | | | | | | |
| 331E | Float (32bit) | Phase3 values of continious learned Values of step3 | R | CTRF | Var | | |
| 331F | | | | | | | |
| 3320 | U16 | header of continious learned Values of Step4 | R | --------- | --------- | | |
| 3321 | Float (32bit) | Phase1 values of continious learned Values of Step4 | R | CTRF | Var | | |
| 3322 | | | | | | | |
| 3323 | Float (32bit) | Phase2 values of continious learned Values of Step4 | R | CTRF | Var | | |
| 3324 | | | | | | | |
| 3325 | Float (32bit) | Phase3 values of continious learned Values of Step4 | R | CTRF | Var | | |
| 3326 | | | | | | | |
| 3327 | U16 | header of continious learned Values of Step5 | R | --------- | --------- | | |
| 3328 | Float (32bit) | Phase1 values of continious learned Values of Step5 | R | CTRF | Var | | |
| 3329 | | | | | | | |
| 332A | Float (32bit) | Phase2 values of continious learned Values of Step5 | R | CTRF | Var | | |
| 332B | | | | | | | |
| 332C | Float (32bit) | Phase3 values of continious learned Values of Step5 | R | CTRF | Var | | |
| 332D | | | | | | | |
| 332E | U16 | header of continious learned Values of Step6 | R | --------- | --------- | | |
| 332F | Float (32bit) | Phase1 values of continious learned Values of Step6 | R | CTRF | Var | | |
| 3330 | | | | | | | |
| 3331 | Float (32bit) | Phase2 values of continious learned Values of Step6 | R | CTRF | Var | | |
| 3332 | | | | | | | |
| 3333 | Float (32bit) | Phase3 values of continious learned Values of Step6 | R | CTRF | Var | | |
| 3334 | | | | | | | |
| 3335 | U16 | header of continious learned Values of Step7 | R | --------- | --------- | | |
| 3336 | Float (32bit) | Phase1 values of continious learned Values of Step7 | R | CTRF | Var | | |
| 3337 | | | | | | | |
| 3338 | Float (32bit) | Phase2 values of continious learned Values of Step7 | R | CTRF | Var | | |
| 3339 | | | | | | | |
| 333A | Float (32bit) | Phase3 values of continious learned Values of Step7 | R | CTRF | Var | | |
| 333B | | | | | | | |
| 333C | U16 | header of continious learned Values of Step8 | R | --------- | --------- | | |

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|---|---|---|---|---|---|---|---|
| 333D | Float (32bit) | Phase1 values of continious learned Values of Step8 | R | CTRF | Var | | |
| 333E | | | | | | | |
| 333F | Float (32bit) | Phase2 values of continious learned Values of Step8 | R | CTRF | Var | | |
| 3340 | | | | | | | |
| 3341 | Float (32bit) | Phase3 values of continious learned Values of Step8 | R | CTRF | Var | | |
| 3342 | | | | | | | |
| 3343 | U16 | header of continious learned Values of Step9 | R | --------- | --------- | | |
| 3344 | Float (32bit) | Phase1 values of continious learned Values of Step9 | R | CTRF | Var | | |
| 3345 | | | | | | | |
| 3346 | Float (32bit) | Phase2 values of continious learned Values of Step9 | R | CTRF | Var | | |
| 3347 | | | | | | | |
| 3348 | Float (32bit) | Phase3 values of continious learned Values of Step9 | R | CTRF | Var | | |
| 3349 | | | | | | | |
| 334A | U16 | header of continious learned Values of Step10 | R | --------- | --------- | | |
| 334B | Float (32bit) | Phase1 values of continious learned Values of Step10 | R | CTRF | Var | | |
| 334C | | | | | | | |
| 334D | Float (32bit) | Phase2 values of continious learned Values of Step10 | R | CTRF | Var | | |
| 334E | | | | | | | |
| 334F | Float (32bit) | Phase3 values of continious learned Values of Step10 | R | CTRF | Var | | |
| 3350 | | | | | | | |
| 3351 | U16 | header of continious learned Values of Step11 | R | --------- | --------- | | |
| 3352 | Float (32bit) | Phase1 values of continious learned Values of Step11 | R | CTRF | Var | | |
| 3353 | | | | | | | |
| 3354 | Float (32bit) | Phase2 values of continious learned Values of Step11 | R | CTRF | Var | | |
| 3355 | | | | | | | |
| 3356 | Float (32bit) | Phase3 values of continious learned Values of Step11 | R | CTRF | Var | | |
| 3357 | | | | | | | |
| 3358 | U16 | header of continious learned Values of Step12 | R | --------- | --------- | | |
| 3359 | Float (32bit) | Phase1 values of continious learned Values of Step12 | R | CTRF | Var | | |
| 335A | | | | | | | |
| 335B | Float (32bit) | Phase2 values of continious learned Values of Step12 | R | CTRF | Var | | |
| 335C | | | | | | | |
| 335D | Float (32bit) | Phase3 values of continious learned Values of Step12 | R | CTRF | Var | | |
| 335E | | | | | | | |
| 335F | U16 | header of continious learned Values of Step13 | R | --------- | --------- | | |
| 3360 | Float (32bit) | Phase1 values of continious learned Values of Step13 | R | CTRF | Var | | |
| 3361 | | | | | | | |
| 3362 | Float (32bit) | Phase2 values of continious learned Values of Step13 | R | CTRF | Var | | |
| 3363 | | | | | | | |
| 3364 | Float (32bit) | Phase3 values of continious learned Values of Step13 | R | CTRF | Var | | |
| 3365 | | | | | | | |
| 3366 | U16 | header of continious learned Values of Step14 | R | --------- | --------- | | |
| 3367 | Float (32bit) | Phase1 values of continious learned Values of Step14 | R | CTRF | Var | | |
| 3368 | | | | | | | |
| 3369 | Float (32bit) | Phase2 values of continious learned Values of Step14 | R | CTRF | Var | | |
| 336A | | | | | | | |
| 336B | Float (32bit) | Phase3 values of continious learned Values of Step14 | R | CTRF | Var | | |
| 336C | | | | | | | |

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|---|---|---|---|---|---|---|---|
| 336D | U16 | header of continious learned Values of Step15 | R | --------- | --------- | | |
| 336E | Float (32bit) | Phase1 values of continious learned Values of Step15 | R | CTRF | Var | | |
| 336F | | | | | | | |
| 3370 | Float (32bit) | Phase2 values of continious learned Values of Step15 | R | CTRF | Var | | |
| 3371 | | | | | | | |
| 3372 | Float (32bit) | Phase3 values of continious learned Values of Step15 | R | CTRF | Var | | |
| 3373 | | | | | | | |
| 3374 | U16 | header of continious learned Values of Step16 | R | --------- | --------- | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3375 | Float (32bit) | Phase1 values of continious learned Values of Step16 | R | CTRF | Var | | |
| 3376 | | | | | | | |
| 3377 | Float (32bit) | Phase2 values of continious learned Values of Step16 | R | CTRF | Var | | |
| 3378 | | | | | | | |
| 3379 | Float (32bit) | Phase3 values of continious learned Values of Step16 | R | CTRF | Var | | |
| 337A | | | | | | | |
| 337B | U16 | header of continious learned Values of Step17 | R | --------- | --------- | | |
| 337C | Float (32bit) | Phase1 values of continious learned Values of Step17 | R | CTRF | Var | | |
| 337D | | | | | | | |
| 337E | Float (32bit) | Phase2 values of continious learned Values of Step17 | R | CTRF | Var | | |
| 337F | | | | | | | |
| 3380 | Float (32bit) | Phase3 values of continious learned Values of Step17 | R | CTRF | Var | | |
| 3381 | | | | | | | |
| 3382 | U16 | header of continious learned Values of Step18 | R | --------- | --------- | | |
| 3383 | Float (32bit) | Phase1 values of continious learned Values of Step18 | R | CTRF | Var | | |
| 3384 | | | | | | | |
| 3385 | Float (32bit) | Phase2 values of continious learned Values of Step18 | R | CTRF | Var | | |
| 3386 | | | | | | | |
| 3387 | Float (32bit) | Phase3 values of continious learned Values of Step18 | R | CTRF | Var | | |
| 3388 | | | | | | | |

| Modbus Address (HEX) | modbus data type | Data Name | Read Write | Multiplier | Unit | Max. Value | Min. Value |
|---|---|---|---|---|---|---|---|
| 3400 | U16 | step usage timer reset | R/W | --------- | --------- | used step number | 0 |
| 3401 | U16 | step switch-on number reset | R/W | --------- | --------- | used step number | 0 |
| 3402 | U16 | step1 usage timer second | R | --------- | second | | |
| 3403 | U16 | step1 usage timer minute | R | --------- | minute | | |
| 3404 | U16 | step1 usage timer hour | R | --------- | hour | | |
| 3405 | U32 | step1 switch-on number | R | --------- | --------- | | |
| 3406 | | | | | | | |
| 3407 | U16 | step2 usage timer second | R | --------- | second | | |
| 3408 | U16 | step2 usage timer minute | R | --------- | minute | | |
| 3409 | U16 | step2 usage timer hour | R | --------- | hour | | |
| 340A | U32 | step2 switch-on number | R | --------- | --------- | | |
| 340B | | | | | | | |
| 340C | U16 | step3 usage timer second | R | --------- | second | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 340D | U16 | step3 usage timer minute | R | --------- | minute | | |
| 340E | U16 | step3 usage timer hour | R | --------- | hour | | |
| 340F | U32 | step3 switch-on number | R | --------- | --------- | | |
| 3410 | | | | | | | |
| 3411 | U16 | step4 usage timer second | R | --------- | second | | |
| 3412 | U16 | step4 usage timer minute | R | --------- | minute | | |
| 3413 | U16 | step4 usage timer hour | R | --------- | hour | | |
| 3414 | U32 | step4 switch-on number | R | --------- | --------- | | |
| 3415 | | | | | | | |
| 3416 | U16 | step5 usage timer second | R | --------- | second | | |
| 3417 | U16 | step5 usage timer minute | R | --------- | minute | | |
| 3418 | U16 | step5 usage timer hour | R | --------- | hour | | |
| 3419 | U32 | step5 switch-on number | R | --------- | --------- | | |
| 341A | | | | | | | |
| 341B | U16 | step6 usage timer second | R | --------- | second | | |
| 341C | U16 | step6 usage timer minute | R | --------- | minute | | |
| 341D | U16 | step6 usage timer hour | R | --------- | hour | | |
| 341E | U32 | step6 switch-on number | R | --------- | --------- | | |
| 341F | | | | | | | |
| 3420 | U16 | step7 usage timer second | R | --------- | second | | |
| 3421 | U16 | step7 usage timer minute | R | --------- | minute | | |
| 3422 | U16 | step7 usage timer hour | R | --------- | hour | | |
| 3423 | U32 | step7 switch-on number | R | --------- | --------- | | |
| 3424 | | | | | | | |
| 3425 | U16 | step8 usage timer second | R | --------- | second | | |
| 3426 | U16 | step8 usage timer minute | R | --------- | minute | | |
| 3427 | U16 | step8 usage timer hour | R | --------- | hour | | |
| 3428 | U32 | step8 switch-on number | R | --------- | --------- | | |
| 3429 | | | | | | | |
| 342A | U16 | step9 usage timer second | R | --------- | second | | |
| 342B | U16 | step9 usage timer minute | R | --------- | minute | | |
| 342C | U16 | step9 usage timer hour | R | --------- | hour | | |
| 342D | U32 | step9 switch-on number | R | --------- | --------- | | |
| 342E | | | | | | | |
| 342F | U16 | step10 usage timer second | R | --------- | second | | |
| 3430 | U16 | step10 usage timer minute | R | --------- | minute | | |
| 3431 | U16 | step10 usage timer hour | R | --------- | hour | | |
| 3432 | U32 | step10 switch-on number | R | --------- | --------- | | |
| 3433 | | | | | | | |
| 3434 | U16 | step11 usage timer second | R | --------- | second | | |
| 3435 | U16 | step11 usage timer minute | R | --------- | minute | | |
| 3436 | U16 | step11 usage timer hour | R | --------- | hour | | |
| 3437 | U32 | step11 switch-on number | R | --------- | --------- | | |
| 3438 | | | | | | | |
| 3439 | U16 | step12 usage timer second | R | --------- | second | | |
| 343A | U16 | step12 usage timer minute | R | --------- | minute | | |
| 343B | U16 | step12 usage timer hour | R | --------- | hour | | |
| 343C | U32 | step12 switch-on number | R | --------- | --------- | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 343D | | | | | | | |
| 343E | U16 | step13 usage timer second | R | --------- | second | | |
| 343F | U16 | step13 usage timer minute | R | --------- | minute | | |
| 3440 | U16 | step13 usage timer hour | R | --------- | hour | | |
| 3441 | U32 | step13 switch-on number | R | --------- | --------- | | |
| 3442 | | | | | | | |
| 3443 | U16 | step14 usage timer second | R | --------- | second | | |
| 3444 | U16 | step14 usage timer minute | R | --------- | minute | | |
| 3445 | U16 | step14 usage timer hour | R | --------- | hour | | |
| 3446 | U32 | step14 switch-on number | R | --------- | --------- | | |
| 3447 | | | | | | | |
| 3448 | U16 | step15 usage timer second | R | --------- | second | | |
| 3449 | U16 | step15 usage timer minute | R | --------- | minute | | |
| 344A | U16 | step15 usage timer hour | R | --------- | hour | | |
| 344B | U32 | step15 switch-on number | R | --------- | --------- | | |
| 344C | | | | | | | |
| 344D | U16 | step16 usage timer second | R | --------- | second | | |
| 344E | U16 | step16 usage timer minute | R | --------- | minute | | |
| 344F | U16 | step16 usage timer hour | R | --------- | hour | | |
| 3450 | U32 | step16 switch-on number | R | --------- | --------- | | |
| 3451 | | | | | | | |
| 3452 | U16 | step17 usage timer second | R | --------- | second | | |
| 3453 | U16 | step17 usage timer minute | R | --------- | minute | | |
| 3454 | U16 | step17 usage timer hour | R | --------- | hour | | |
| 3455 | U32 | step17 switch-on number | R | --------- | --------- | | |
| 3456 | | | | | | | |
| 3457 | U16 | step18 usage timer second | R | --------- | second | | |
| 3458 | U16 | step18 usage timer minute | R | --------- | minute | | |
| 3459 | U16 | step18 usage timer hour | R | --------- | hour | | |
| 345A | U32 | step18 switch-on number | R | --------- | --------- | | |
| 345B | | | | | | | |

## Parameters

| Modbus Address (HEX) | modbus data type | Data Name | Read Write | Multiplier | Unit | Max. Value | Min. Value |
|---|---|---|---|---|---|---|---|
| 4000 | S16 | tanΦ1 | R/W | | | 75 | -75 |
| 4001 | S16 | tanΦ2 | R/W | | | 75 | -75 |
| 4002 | U16 | tanΦ2 enable | R/W | | | 1 | 0 |
| 4003 | U16 | maximum inductive bound value(3-50) | R/W | | | 50 | 3 |
| 4004 | U16 | maximum capacitive bound value (3-50) | R/W | | | 50 | 3 |
| 4005 | U16 | t on time | R/W | | second | 600 | 1 |
| 4006 | U16 | t off time | R/W | | second | 600 | 1 |
| 4007 | U16 | t min time | R/W | | second | 600 | 1 |
| 4008 | U16 | delta t on time | R/W | | second | 3600 | 0 |
| 4009 | U16 | delta t off time | R/W | | second | 3600 | 0 |
| 400A | U16 | continiously learning values use on power correction process | R/W | | | 1 | 0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 400B | U16 | current transformer learning continiously | R/W | | | 1 | 0 |
| 400C | U16 | phase alarm control register:<br><br>overVoltage Bit0<br>underVoltage Bit1<br>overCurrent Bit2<br>overCompensation Bit3<br>UnderCompensationBit4<br>missingPhase Bit5<br>overTHDV Bit6<br>overHDV Bit7<br>overTHDC Bit8<br>overHDC Bit9 | R/W | | | 0x3FF | 0 |
| 400D | U16 | generalpurpose alarm control register<br><br>missingConnector1 Bit0<br>missingConnector2 Bit1<br>missingConnector3 Bit2<br>overCompansation Bit3<br>underCompansation Bit4<br>systemError Bit5<br>overHeatBit Bit6<br>phaseVoltageConnectionError Bit7<br>Changed of step value Bit8<br>warning; Zero of step value Bit9<br>ProtectedModbusEnteranceError Bit10 | R/W | | | 0x7FF | 0 |
| 400E | U16 | over voltage boundary | R/W | | | 270 | 230 |
| 400F | U16 | under voltage boundary | R/W | | | 210 | 170 |
| 4010 | U16 | over thdv boundary | R/W | | | 100 | 1 |
| 4011 | U16 | Over hdv boundary | R/W | | | 100 | 1 |
| 4012 | U16 | over thdc boundary | R/W | | | 100 | 1 |
| 4013 | U16 | Over hdc boundary | R/W | | | 100 | 1 |
| 4014 | U16 | heat boundary for alarm | R/W | | | 85 | 5 |
| 4015 | U16 | heat boundary for fan | R/W | | | 85 | 5 |
| 4016 | U16 | Step out device save bits<br>//1. bit sıcaklık koruma , bit0<br>//2. bit aşırı düşük voltajdan koruma, bit1<br>//3. bit aşırı voltaj harmoniginden dolayı koruma bit2 | R/W | | | 7 | 0 |
| 4017 | U16 | fan enable | R/W | | | 1 | 0 |
| 4018 | U16 | constant step out enable | R/W | | | 1 | 0 |
| 4019 | U16 | fast mode enable | R/W | | | 1 | 0 |
| 401A | U16 | modbus device number<br>1-255 | R/W | | | 255 | 1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 401B | U16 | modbus working speed<br>//0-2400 bit/sec<br>//1-4800 bit/sec<br>//2-9600 bit/sec<br>//3-19200 bit/sec<br>//4-28800 bit/sec<br>//5-38400 bit/sec<br>//6-57600 bit/sec<br>//7-115200 bit/sec | R/W | | | 7 | 0 |
| 401C | U16 | modbus communication parity<br>//0- no parity<br>//1- odd parity<br>//2- even parity | R/W | | | 2 | 0 |
| 401D | U16 | modbus communication stop bits<br>//0 - 1 stop bit is transmitted at the end of frame<br>//1 - 0.5 stop bit is transmitted at the end of frame<br>//2 - 2 stop bit is transmitted at the end of frame<br>//3 - 1.5 stop bit is transmitted at the end of frame | R/W | | | 3 | 0 |
| 401E | U16 | modbus write protect | R/W | | | 1 | 0 |
| 401F | U16 | modbus read protect | R/W | | | 1 | 0 |
| 4020 | U16 | modbus write code | R/W | | | 9999 | 0 |
| 4021 | U16 | modbus read code | R/W | | | 9999 | 0 |

| Modbus Address (HEX) | modbus data type | Data Name | Read Write | Multiplier | Unit | Max. Value | Min. Value |
|---|---|---|---|---|---|---|---|
| 5000 | S16 | Base harmonic (50hz) voltage (100mV) phase1 | R | 0.1 | Volt | | |
| 5001 | S16 | 3rd harmonic voltage (100mV) phase1 | R | 0.1 | Volt | | |
| 5002 | S16 | 5th harmonic voltage (100mV) phase1 | R | 0.1 | Volt | | |
| 5003 | S16 | 7th harmonic voltage (100mV) phase1 | R | 0.1 | Volt | | |
| 5004 | S16 | 9th harmonic voltage (100mV) phase1 | R | 0.1 | Volt | | |
| 5005 | S16 | 11th harmonic voltage (100mV) phase1 | R | 0.1 | Volt | | |
| 5006 | S16 | 13th harmonic voltage (100mV) phase1 | R | 0.1 | Volt | | |
| 5007 | S16 | 15th harmonic voltage (100mV) phase1 | R | 0.1 | Volt | | |
| 5008 | S16 | 17th harmonic voltage (100mV) phase1 | R | 0.1 | Volt | | |
| 5009 | S16 | 19th harmonic voltage (100mV) phase1 | R | 0.1 | Volt | | |
| 500A | S16 | 21th harmonic voltage (100mV) phase1 | R | 0.1 | Volt | | |
| 500B | S16 | 23th harmonic voltage (100mV) phase1 | R | 0.1 | Volt | | |
| 500C | S16 | 25th harmonic voltage (100mV) phase1 | R | 0.1 | Volt | | |
| 500D | S16 | 27h harmonic voltage (100mV) phase1 | R | 0.1 | Volt | | |
| 500E | S16 | 29th harmonic voltage (100mV) phase1 | R | 0.1 | Volt | | |
| 500F | S16 | 31th harmonic voltage (100mV) phase1 | R | 0.1 | Volt | | |
| 5010 | S16 | Base harmonic (50hz) voltage (100mV) phase2 | R | 0.1 | Volt | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5011 | S16 | 3rd harmonic voltage (100mV) phase2 | R | 0.1 | Volt | | |
| 5012 | S16 | 5th harmonic voltage (100mV) phase2 | R | 0.1 | Volt | | |
| 5013 | S16 | 7th harmonic voltage (100mV) phase2 | R | 0.1 | Volt | | |
| 5014 | S16 | 9th harmonic voltage (100mV) phase2 | R | 0.1 | Volt | | |
| 5015 | S16 | 11th harmonic voltage (100mV) phase2 | R | 0.1 | Volt | | |
| 5016 | S16 | 13th harmonic voltage (100mV) phase2 | R | 0.1 | Volt | | |
| 5017 | S16 | 15th harmonic voltage (100mV) phase2 | R | 0.1 | Volt | | |
| 5018 | S16 | 17th harmonic voltage (100mV) phase2 | R | 0.1 | Volt | | |
| 5019 | S16 | 19th harmonic voltage (100mV) phase2 | R | 0.1 | Volt | | |
| 501A | S16 | 21th harmonic voltage (100mV) phase2 | R | 0.1 | Volt | | |
| 501B | S16 | 23th harmonic voltage (100mV) phase2 | R | 0.1 | Volt | | |
| 501C | S16 | 25th harmonic voltage (100mV) phase2 | R | 0.1 | Volt | | |
| 501D | S16 | 27h harmonic voltage (100mV) phase2 | R | 0.1 | Volt | | |
| 501E | S16 | 29th harmonic voltage (100mV) phase2 | R | 0.1 | Volt | | |
| 501F | S16 | 31th harmonic voltage (100mV) phase2 | R | 0.1 | Volt | | |
| 5020 | S16 | Base harmonic (50hz) voltage (100mV) phase3 | R | 0.1 | Volt | | |
| 5021 | S16 | 3rd harmonic voltage (100mV) phase3 | R | 0.1 | Volt | | |
| 5022 | S16 | 5th harmonic voltage (100mV) phase3 | R | 0.1 | Volt | | |
| 5023 | S16 | 7th harmonic voltage (100mV) phase3 | R | 0.1 | Volt | | |
| 5024 | S16 | 9th harmonic voltage (100mV) phase3 | R | 0.1 | Volt | | |
| 5025 | S16 | 11th harmonic voltage (100mV) phase3 | R | 0.1 | Volt | | |
| 5026 | S16 | 13th harmonic voltage (100mV) phase3 | R | 0.1 | Volt | | |
| 5027 | S16 | 15th harmonic voltage (100mV) phase3 | R | 0.1 | Volt | | |
| 5028 | S16 | 17th harmonic voltage (100mV) phase3 | R | 0.1 | Volt | | |
| 5029 | S16 | 19th harmonic voltage (100mV) phase3 | R | 0.1 | Volt | | |
| 502A | S16 | 21th harmonic voltage (100mV) phase3 | R | 0.1 | Volt | | |
| 502B | S16 | 23th harmonic voltage (100mV) phase3 | R | 0.1 | Volt | | |
| 502C | S16 | 25th harmonic voltage (100mV) phase3 | R | 0.1 | Volt | | |
| 502D | S16 | 27h harmonic voltage (100mV) phase3 | R | 0.1 | Volt | | |
| 502E | S16 | 29th harmonic voltage (100mV) phase3 | R | 0.1 | Volt | | |
| 502F | S16 | 31th harmonic voltage (100mV) phase3 | R | 0.1 | Volt | | |
| 5030 | S16 | Base harmonic (50hz) current (mA) phase1 | R | CTRF*0.001 | Amp | | |
| 5031 | S16 | 3rd harmonic current (mA) phase1 | R | CTRF*0.001 | Amp | | |
| 5032 | S16 | 5th harmonic current (mA) phase1 | R | CTRF*0.001 | Amp | | |
| 5033 | S16 | 7th harmonic current (mA) phase1 | R | CTRF*0.001 | Amp | | |
| 5034 | S16 | 9th harmonic current (mA) phase1 | R | CTRF*0.001 | Amp | | |
| 5035 | S16 | 11th harmonic current (mA) phase1 | R | CTRF*0.001 | Amp | | |
| 5036 | S16 | 13th harmonic current (mA) phase1 | R | CTRF*0.001 | Amp | | |
| 5037 | S16 | 15th harmonic current (mA) phase1 | R | CTRF*0.001 | Amp | | |
| 5038 | S16 | 17th harmonic current (mA) phase1 | R | CTRF*0.001 | Amp | | |
| 5039 | S16 | 19th harmonic current (mA) phase1 | R | CTRF*0.001 | Amp | | |
| 503A | S16 | 21th harmonic current (mA) phase1 | R | CTRF*0.001 | Amp | | |
| 503B | S16 | 23th harmonic current (mA) phase1 | R | CTRF*0.001 | Amp | | |
| 503C | S16 | 25th harmonic current (mA) phase1 | R | CTRF*0.001 | Amp | | |
| 503D | S16 | 27h harmonic current (mA) phase1 | R | CTRF*0.001 | Amp | | |
| 503E | S16 | 29th harmonic current (mA) phase1 | R | CTRF*0.001 | Amp | | |
| 503F | S16 | 31th harmonic current (mA) phase1 | R | CTRF*0.001 | Amp | | |
| 5040 | S16 | Base harmonic (50hz) current (mA) phase2 | R | CTRF*0.001 | Amp | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5041 | S16 | 3rd harmonic current (mA) phase2 | R | CTRF*0.001 | Amp | | |
| 5042 | S16 | 5th harmonic current (mA) phase2 | R | CTRF*0.001 | Amp | | |
| 5043 | S16 | 7th harmonic current (mA) phase2 | R | CTRF*0.001 | Amp | | |
| 5044 | S16 | 9th harmonic current (mA) phase2 | R | CTRF*0.001 | Amp | | |
| 5045 | S16 | 11th harmonic current (mA) phase2 | R | CTRF*0.001 | Amp | | |
| 5046 | S16 | 13th harmonic current (mA) phase2 | R | CTRF*0.001 | Amp | | |
| 5047 | S16 | 15th harmonic current (mA) phase2 | R | CTRF*0.001 | Amp | | |
| 5048 | S16 | 17th harmonic current (mA) phase2 | R | CTRF*0.001 | Amp | | |
| 5049 | S16 | 19th harmonic current (mA) phase2 | R | CTRF*0.001 | Amp | | |
| 504A | S16 | 21th harmonic current (mA) phase2 | R | CTRF*0.001 | Amp | | |
| 504B | S16 | 23th harmonic current (mA) phase2 | R | CTRF*0.001 | Amp | | |
| 504C | S16 | 25th harmonic current (mA) phase2 | R | CTRF*0.001 | Amp | | |
| 504D | S16 | 27h harmonic current (mA) phase2 | R | CTRF*0.001 | Amp | | |
| 504E | S16 | 29th harmonic current (mA) phase2 | R | CTRF*0.001 | Amp | | |
| 504F | S16 | 31th harmonic current (mA) phase2 | R | CTRF*0.001 | Amp | | |
| 5050 | S16 | Base harmonic (50hz) current (mA) phase3 | R | CTRF*0.001 | Amp | | |
| 5051 | S16 | 3rd harmonic current (mA) phase3 | R | CTRF*0.001 | Amp | | |
| 5052 | S16 | 5th harmonic current (mA) phase3 | R | CTRF*0.001 | Amp | | |
| 5053 | S16 | 7th harmonic current (mA) phase3 | R | CTRF*0.001 | Amp | | |
| 5054 | S16 | 9th harmonic current (mA) phase3 | R | CTRF*0.001 | Amp | | |
| 5055 | S16 | 11th harmonic current (mA) phase3 | R | CTRF*0.001 | Amp | | |
| 5056 | S16 | 13th harmonic current (mA) phase3 | R | CTRF*0.001 | Amp | | |
| 5057 | S16 | 15th harmonic current (mA) phase3 | R | CTRF*0.001 | Amp | | |
| 5058 | S16 | 17th harmonic current (mA) phase3 | R | CTRF*0.001 | Amp | | |
| 5059 | S16 | 19th harmonic current (mA) phase3 | R | CTRF*0.001 | Amp | | |
| 505A | S16 | 21th harmonic current (mA) phase3 | R | CTRF*0.001 | Amp | | |
| 505B | S16 | 23th harmonic current (mA) phase3 | R | CTRF*0.001 | Amp | | |
| 505C | S16 | 25th harmonic current (mA) phase3 | R | CTRF*0.001 | Amp | | |
| 505D | S16 | 27h harmonic current (mA) phase3 | R | CTRF*0.001 | Amp | | |
| 505E | S16 | 29th harmonic current (mA) phase3 | R | CTRF*0.001 | Amp | | |
| 505F | S16 | 31th harmonic current (mA) phase3 | R | CTRF*0.001 | Amp | | |
| 5060 | S16 | Total Voltage Harmonic Distorsiyon (100mV) (THDV) phase1 | R | 0.1 | Volt | | |
| 5061 | S16 | Total Voltage Harmonic Distorsiyon (100mV) (THDV) phase2 | R | 0.1 | Volt | | |
| 5062 | S16 | Total Voltage Harmonic Distorsiyon (100mV) (THDV) phase3 | R | 0.1 | Volt | | |
| 5063 | S16 | Total Current Harmonic Distorsiyon (mA) (THDC) phase1 | R | CTRF*0.001 | Amp | | |
| 5064 | S16 | Total Current Harmonic Distorsiyon (mA) (THDC) phase2 | R | CTRF*0.001 | Amp | | |
| 5065 | S16 | Total Current Harmonic Distorsiyon (mA) (THDC) phase3 | R | CTRF*0.001 | Amp | | |

| Modbus Address (HEX) | modbus data type | Data Name | Read Write | Multiplier | Unit | Max. Value | Min. Value |
|---|---|---|---|---|---|---|---|
| 5100 | Float (32bit) | Base harmonic (50hz) voltage phase1 | R | --------- | Volt | | |
| 5101 | | | | | | | |
| 5102 | Float (32bit) | 3rd harmonic voltage phase1 | R | --------- | Volt | | |
| 5103 | | | | | | | |
| 5104 | Float (32bit) | 5rd harmonic voltage phase1 | R | --------- | Volt | | |

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|---|---|---|---|---|---|---|---|
| 5105 | | | | | | | |
| 5106 | Float (32bit) | 7rd harmonic voltage phase1 | R | --------- | Volt | | |
| 5107 | | | | | | | |
| 5108 | Float (32bit) | 9rd harmonic voltage phase1 | R | --------- | Volt | | |
| 5109 | | | | | | | |
| 510A | Float (32bit) | 11rd harmonic voltage phase1 | R | --------- | Volt | | |
| 510B | | | | | | | |
| 510C | Float (32bit) | 13rd harmonic voltage phase1 | R | --------- | Volt | | |
| 510D | | | | | | | |
| 510E | Float (32bit) | 15rd harmonic voltage phase1 | R | --------- | Volt | | |
| 510F | | | | | | | |
| 5110 | Float (32bit) | 17rd harmonic voltage phase1 | R | --------- | Volt | | |
| 5111 | | | | | | | |
| 5112 | Float (32bit) | 19rd harmonic voltage phase1 | R | --------- | Volt | | |
| 5113 | | | | | | | |
| 5114 | Float (32bit) | 21rd harmonic voltage phase1 | R | --------- | Volt | | |
| 5115 | | | | | | | |
| 5116 | Float (32bit) | 23rd harmonic voltage phase1 | R | --------- | Volt | | |
| 5117 | | | | | | | |
| 5118 | Float (32bit) | 25rd harmonic voltage phase1 | R | --------- | Volt | | |
| 5119 | | | | | | | |
| 511A | Float (32bit) | 27rd harmonic voltage phase1 | R | --------- | Volt | | |
| 511B | | | | | | | |
| 511C | Float (32bit) | 29rd harmonic voltage phase1 | R | --------- | Volt | | |
| 511D | | | | | | | |
| 511E | Float (32bit) | 31rd harmonic voltage phase1 | R | --------- | Volt | | |
| 511F | | | | | | | |
| 5120 | Float (32bit) | Base harmonic (50hz) voltage phase2 | R | --------- | Volt | | |
| 5121 | | | | | | | |
| 5122 | Float (32bit) | 3rd harmonic voltage phase2 | R | --------- | Volt | | |
| 5123 | | | | | | | |
| 5124 | Float (32bit) | 5rd harmonic voltage phase2 | R | --------- | Volt | | |
| 5125 | | | | | | | |
| 5126 | Float (32bit) | 7rd harmonic voltage phase2 | R | --------- | Volt | | |
| 5127 | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5128 | Float (32bit) | 9rd harmonic voltage phase2 | R | --------- | Volt | | |
| 5129 | | | | | | | |
| 512A | Float (32bit) | 11rd harmonic voltage phase2 | R | --------- | Volt | | |
| 512B | | | | | | | |
| 512C | Float (32bit) | 13rd harmonic voltage phase2 | R | --------- | Volt | | |
| 512D | | | | | | | |
| 512E | Float (32bit) | 15rd harmonic voltage phase2 | R | --------- | Volt | | |
| 512F | | | | | | | |
| 5130 | Float (32bit) | 17rd harmonic voltage phase2 | R | --------- | Volt | | |
| 5131 | | | | | | | |
| 5132 | Float (32bit) | 19rd harmonic voltage phase2 | R | --------- | Volt | | |
| 5133 | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5134 | Float (32bit) | 21rd harmonic voltage phase2 | R | --------- | Volt | | |
| 5135 | | | | | | | |
| 5136 | Float (32bit) | 23rd harmonic voltage phase2 | R | --------- | Volt | | |
| 5137 | | | | | | | |
| 5138 | Float (32bit) | 25rd harmonic voltage phase2 | R | --------- | Volt | | |
| 5139 | | | | | | | |
| 513A | Float (32bit) | 27rd harmonic voltage phase2 | R | --------- | Volt | | |
| 513B | | | | | | | |
| 513C | Float (32bit) | 29rd harmonic voltage phase2 | R | --------- | Volt | | |
| 513D | | | | | | | |
| 513E | Float (32bit) | 31rd harmonic voltage phase2 | R | --------- | Volt | | |
| 513F | | | | | | | |
| 5140 | Float (32bit) | Base harmonic (50hz) voltage phase3 | R | --------- | Volt | | |
| 5141 | | | | | | | |
| 5142 | Float (32bit) | 3rd harmonic voltage phase3 | R | --------- | Volt | | |
| 5143 | | | | | | | |
| 5144 | Float (32bit) | 5rd harmonic voltage phase3 | R | --------- | Volt | | |
| 5145 | | | | | | | |
| 5146 | Float (32bit) | 7rd harmonic voltage phase3 | R | --------- | Volt | | |
| 5147 | | | | | | | |
| 5148 | Float (32bit) | 9rd harmonic voltage phase3 | R | --------- | Volt | | |
| 5149 | | | | | | | |
| 514A | Float (32bit) | 11rd harmonic voltage phase3 | R | --------- | Volt | | |
| 514B | | | | | | | |
| 514C | Float (32bit) | 13rd harmonic voltage phase3 | R | --------- | Volt | | |
| 514D | | | | | | | |
| 514E | Float (32bit) | 15rd harmonic voltage phase3 | R | --------- | Volt | | |
| 514F | | | | | | | |
| 5150 | Float (32bit) | 17rd harmonic voltage phase3 | R | --------- | Volt | | |
| 5151 | | | | | | | |
| 5152 | Float (32bit) | 19rd harmonic voltage phase3 | R | --------- | Volt | | |
| 5153 | | | | | | | |
| 5154 | Float (32bit) | 21rd harmonic voltage phase3 | R | --------- | Volt | | |
| 5155 | | | | | | | |
| 5156 | Float (32bit) | 23rd harmonic voltage phase3 | R | --------- | Volt | | |
| 5157 | | | | | | | |
| 5158 | Float (32bit) | 25rd harmonic voltage phase3 | R | --------- | Volt | | |
| 5159 | | | | | | | |
| 515A | Float (32bit) | 27rd harmonic voltage phase3 | R | --------- | Volt | | |
| 515B | | | | | | | |
| 515C | Float (32bit) | 29rd harmonic voltage phase3 | R | --------- | Volt | | |
| 515D | | | | | | | |
| 515E | Float (32bit) | 31rd harmonic voltage phase3 | R | --------- | Volt | | |
| 515F | | | | | | | |
| 5160 | Float (32bit) | Base harmonic (50hz) current phase1 | R | CTRF | Amp | | |
| 5161 | | | | | | | |
| 5162 | Float (32bit) | 3rd harmonic current phase1 | R | CTRF | Amp | | |
| 5163 | | | | | | | |

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|---|---|---|---|---|---|---|---|
| 5164 | Float (32bit) | 5rd harmonic current phase1 | R | CTRF | Amp | | |
| 5165 | | | | | | | |
| 5166 | Float (32bit) | 7rd harmonic current phase1 | R | CTRF | Amp | | |
| 5167 | | | | | | | |
| 5168 | Float (32bit) | 9rd harmonic current phase1 | R | CTRF | Amp | | |
| 5169 | | | | | | | |
| 516A | Float (32bit) | 11rd harmonic current phase1 | R | CTRF | Amp | | |
| 516B | | | | | | | |
| 516C | Float (32bit) | 13rd harmonic current phase1 | R | CTRF | Amp | | |
| 516D | | | | | | | |
| 516E | Float (32bit) | 15rd harmonic current phase1 | R | CTRF | Amp | | |
| 516F | | | | | | | |
| 5170 | Float (32bit) | 17rd harmonic current phase1 | R | CTRF | Amp | | |
| 5171 | | | | | | | |
| 5172 | Float (32bit) | 19rd harmonic current phase1 | R | CTRF | Amp | | |
| 5173 | | | | | | | |
| 5174 | Float (32bit) | 21rd harmonic current phase1 | R | CTRF | Amp | | |
| 5175 | | | | | | | |
| 5176 | Float (32bit) | 23rd harmonic current phase1 | R | CTRF | Amp | | |
| 5177 | | | | | | | |
| 5178 | Float (32bit) | 25rd harmonic current phase1 | R | CTRF | Amp | | |
| 5179 | | | | | | | |
| 517A | Float (32bit) | 27rd harmonic current phase1 | R | CTRF | Amp | | |
| 517B | | | | | | | |
| 517C | Float (32bit) | 29rd harmonic current phase1 | R | CTRF | Amp | | |
| 517D | | | | | | | |
| 517E | Float (32bit) | 31rd harmonic current phase1 | R | CTRF | Amp | | |
| 517F | | | | | | | |
| 5180 | Float (32bit) | Base harmonic (50hz) current phase2 | R | CTRF | Amp | | |
| 5181 | | | | | | | |
| 5182 | Float (32bit) | 3rd harmonic current phase2 | R | CTRF | Amp | | |
| 5183 | | | | | | | |
| 5184 | Float (32bit) | 5rd harmonic current phase2 | R | CTRF | Amp | | |
| 5185 | | | | | | | |
| 5186 | Float (32bit) | 7rd harmonic current phase2 | R | CTRF | Amp | | |
| 5187 | | | | | | | |
| 5188 | Float (32bit) | 9rd harmonic current phase2 | R | CTRF | Amp | | |
| 5189 | | | | | | | |
| 518A | Float (32bit) | 11rd harmonic current phase2 | R | CTRF | Amp | | |
| 518B | | | | | | | |
| 518C | Float (32bit) | 13rd harmonic current phase2 | R | CTRF | Amp | | |
| 518D | | | | | | | |
| 518E | Float (32bit) | 15rd harmonic current phase2 | R | CTRF | Amp | | |
| 518F | | | | | | | |
| 5190 | Float (32bit) | 17rd harmonic current phase2 | R | CTRF | Amp | | |
| 5191 | | | | | | | |
| 5192 | Float (32bit) | 19rd harmonic current phase2 | R | CTRF | Amp | | |
| 5193 | | | | | | | |

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|---|---|---|---|---|---|---|---|
| 5194 | Float (32bit) | 21rd harmonic current phase2 | R | CTRF | Amp | | |
| 5195 | | | | | | | |
| 5196 | Float (32bit) | 23rd harmonic current phase2 | R | CTRF | Amp | | |
| 5197 | | | | | | | |
| 5198 | Float (32bit) | 25rd harmonic current phase2 | R | CTRF | Amp | | |
| 5199 | | | | | | | |
| 519A | Float (32bit) | 27rd harmonic current phase2 | R | CTRF | Amp | | |
| 519B | | | | | | | |
| 519C | Float (32bit) | 29rd harmonic current phase2 | R | CTRF | Amp | | |
| 519D | | | | | | | |
| 519E | Float (32bit) | 31rd harmonic current phase2 | R | CTRF | Amp | | |
| 519F | | | | | | | |
| 51A0 | Float (32bit) | Base harmonic (50hz) current phase3 | R | CTRF | Amp | | |
| 51A1 | | | | | | | |
| 51A2 | Float (32bit) | 3rd harmonic current phase3 | R | CTRF | Amp | | |
| 51A3 | | | | | | | |
| 51A4 | Float (32bit) | 5rd harmonic current phase3 | R | CTRF | Amp | | |
| 51A5 | | | | | | | |
| 51A6 | Float (32bit) | 7rd harmonic current phase3 | R | CTRF | Amp | | |
| 51A7 | | | | | | | |
| 51A8 | Float (32bit) | 9rd harmonic current phase3 | R | CTRF | Amp | | |
| 51A9 | | | | | | | |
| 51AA | Float (32bit) | 11rd harmonic current phase3 | R | CTRF | Amp | | |
| 51AB | | | | | | | |
| 51AC | Float (32bit) | 13rd harmonic current phase3 | R | CTRF | Amp | | |
| 51AD | | | | | | | |
| 51AE | Float (32bit) | 15rd harmonic current phase3 | R | CTRF | Amp | | |
| 51AF | | | | | | | |
| 51B0 | Float (32bit) | 17rd harmonic current phase3 | R | CTRF | Amp | | |
| 51B1 | | | | | | | |
| 51B2 | Float (32bit) | 19rd harmonic current phase3 | R | CTRF | Amp | | |
| 51B3 | | | | | | | |
| 51B4 | Float (32bit) | 21rd harmonic current phase3 | R | CTRF | Amp | | |
| 51B5 | | | | | | | |
| 51B6 | Float (32bit) | 23rd harmonic current phase3 | R | CTRF | Amp | | |
| 51B7 | | | | | | | |
| 51B8 | Float (32bit) | 25rd harmonic current phase3 | R | CTRF | Amp | | |
| 51B9 | | | | | | | |
| 51BA | Float (32bit) | 27rd harmonic current phase3 | R | CTRF | Amp | | |
| 51BB | | | | | | | |
| 51BC | Float (32bit) | 29rd harmonic current phase3 | R | CTRF | Amp | | |
| 51BD | | | | | | | |
| 51BE | Float (32bit) | 31rd harmonic current phase3 | R | CTRF | Amp | | |
| 51BF | | | | | | | |
| 51C0 | Float (32bit) | Total Voltage Harmonic Distorsiyon (THDV) phase1 | R | --------- | Volt | | |
| 51C1 | | | | | | | |
| 51C2 | Float (32bit) | Total Voltage Harmonic Distorsiyon (THDV) phase2 | R | --------- | Volt | | |
| 51C3 | | | | | | | |

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|---|---|---|---|---|---|---|---|
| 51C4 | Float (32bit) | Total Voltage Harmonic Distorsiyon (THDV) phase3 | R | --------- | Volt | | |
| 51C5 | | | | | | | |
| 51C6 | Float (32bit) | Total Current Harmonic Distorsiyon (A) (THDC) phase1 | R | CTRF | Amp | | |
| 51C7 | | | | | | | |
| 51C8 | Float (32bit) | Total Current Harmonic Distorsiyon (A) (THDC) phase2 | R | CTRF | Amp | | |
| 51C9 | | | | | | | |
| 51CA | Float (32bit) | Total Current Harmonic Distorsiyon (A) (THDC) phase3 | R | CTRF | Amp | | |
| 51CB | | | | | | | |

| Modbus Address (HEX) | modbus data type | Data Name | Read Write | Multiplier | Unit | Max. Value | Min. Value |
|---|---|---|---|---|---|---|---|
| 5200 | S16 | (total harmonic voltage / base voltage)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 5201 | S16 | ($3^{rd}$ harmonic voltage / base voltage)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 5202 | S16 | ($5^{th}$ harmonic voltage/ base voltage)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 5203 | S16 | (7th harmonic voltage / base voltage)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 5204 | S16 | ($9^{th}$ harmonic voltage / base voltage)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 5205 | S16 | ($11^{th}$ harmonic voltage / base voltage)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 5206 | S16 | ($13^{th}$ harmonic voltage / base voltage)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 5207 | S16 | ($15^{th}$ harmonic voltage / base voltage)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 5208 | S16 | ($17^{th}$ harmonic voltage / base voltage)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 5209 | S16 | ($19^{th}$ harmonic voltage / base voltage)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 520A | S16 | ($21^{th}$ harmonic voltage / base voltage)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 520B | S16 | ($23^{th}$ harmonic voltage / base voltage)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 520C | S16 | ($25^{th}$ harmonic voltage / base voltage)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 520D | S16 | (27h harmonic voltage / base voltage)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 520E | S16 | ($29^{th}$ harmonic voltage / base voltage)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 520F | S16 | ($31^{th}$ harmonic voltage / base voltage)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 5210 | S16 | (total harmonic voltage / base voltage)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 5211 | S16 | (3rd harmonic voltage / base voltage)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 5212 | S16 | (5th harmonic voltage/ base voltage)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 5213 | S16 | (7th harmonic voltage / base voltage)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 5214 | S16 | (9th harmonic voltage / base voltage)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 5215 | S16 | (11th harmonic voltage / base voltage)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 5216 | S16 | (13th harmonic voltage / base voltage)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 5217 | S16 | (15th harmonic voltage / base voltage)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 5218 | S16 | (17th harmonic voltage / base voltage)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 5219 | S16 | (19th harmonic voltage / base voltage)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 521A | S16 | (21th harmonic voltage / base voltage)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 521B | S16 | (23th harmonic voltage / base voltage)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 521C | S16 | (25th harmonic voltage / base voltage)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 521D | S16 | (27h harmonic voltage / base voltage)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 521E | S16 | (29th harmonic voltage / base voltage)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 521F | S16 | (31th harmonic voltage / base voltage)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 5220 | S16 | (total harmonic voltage / base voltage)*1000 phase3 | R | 0.1 | Harmonic% rate | | |

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|---|---|---|---|---|---|---|---|
| 5221 | S16 | (3rd harmonic voltage / base voltage)*1000 phase3 | R | 0.1 | Harmonic% rate | | |
| 5222 | S16 | (5th harmonic voltage/ base voltage)*1000 phase3 | R | 0.1 | Harmonic% rate | | |
| 5223 | S16 | (7th harmonic voltage / base voltage)*1000 phase3 | R | 0.1 | Harmonic% rate | | |
| 5224 | S16 | (9th harmonic voltage / base voltage)*1000 phase3 | R | 0.1 | Harmonic% rate | | |
| 5225 | S16 | (11th harmonic voltage / base voltage)*1000 phase3 | R | 0.1 | Harmonic% rate | | |
| 5226 | S16 | (13th harmonic voltage / base voltage)*1000 phase3 | R | 0.1 | Harmonic% rate | | |
| 5227 | S16 | (15th harmonic voltage / base voltage)*1000 phase3 | R | 0.1 | Harmonic% rate | | |
| 5228 | S16 | (17th harmonic voltage / base voltage)*1000 phase3 | R | 0.1 | Harmonic% rate | | |
| 5229 | S16 | (19th harmonic voltage / base voltage)*1000 phase3 | R | 0.1 | Harmonic% rate | | |
| 522A | S16 | (21th harmonic voltage / base voltage)*1000 phase3 | R | 0.1 | Harmonic% rate | | |
| 522B | S16 | (23th harmonic voltage / base voltage)*1000 phase3 | R | 0.1 | Harmonic% rate | | |
| 522C | S16 | (25th harmonic voltage / base voltage)*1000 phase3 | R | 0.1 | Harmonic% rate | | |
| 522D | S16 | (27h harmonic voltage / base voltage)*1000 phase3 | R | 0.1 | Harmonic% rate | | |
| 522E | S16 | (29th harmonic voltage / base voltage)*1000 phase3 | R | 0.1 | Harmonic% rate | | |
| 522F | S16 | (31th harmonic voltage / base voltage)*1000 phase3 | R | 0.1 | Harmonic% rate | | |
| 5230 | S16 | (total harmonic current / base current)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 5231 | S16 | (3rd harmonic current / base current)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 5232 | S16 | (5th harmonic current/ base current)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 5233 | S16 | (7th harmonic current / base current)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 5234 | S16 | (9th harmonic current / base current)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 5235 | S16 | (11th harmonic current / base current)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 5236 | S16 | (13th harmonic current / base current)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 5237 | S16 | (15th harmonic current / base current)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 5238 | S16 | (17th harmonic current / base current)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 5239 | S16 | (19th harmonic current / base current)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 523A | S16 | (21th harmonic current / base current)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 523B | S16 | (23th harmonic current / base current)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 523C | S16 | (25th harmonic current / base current)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 523D | S16 | (27h harmonic current / base current)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 523E | S16 | (29th harmonic current / base current)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 523F | S16 | (31th harmonic current / base current)*1000 phase1 | R | 0.1 | Harmonic% rate | | |
| 5240 | S16 | (total harmonic current / base current)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 5241 | S16 | (3rd harmonic current / base current)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 5242 | S16 | (5th harmonic current/ base current)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 5243 | S16 | (7th harmonic current / base current)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 5244 | S16 | (9th harmonic current / base current)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 5245 | S16 | (11th harmonic current / base current)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 5246 | S16 | (13th harmonic current / base current)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 5247 | S16 | (15th harmonic current / base current)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 5248 | S16 | (17th harmonic current / base current)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 5249 | S16 | (19th harmonic current / base current)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 524A | S16 | (21th harmonic current / base current)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 524B | S16 | (23th harmonic current / base current)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 524C | S16 | (25th harmonic current / base current)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 524D | S16 | (27h harmonic current / base current)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 524E | S16 | (29th harmonic current / base current)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 524F | S16 | (31th harmonic current / base current)*1000 phase2 | R | 0.1 | Harmonic% rate | | |
| 5250 | S16 | (total harmonic current / base current)*1000 phase3 | R | 0.1 | Harmonic% rate | | |

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|---|---|---|---|---|---|---|---|
| 5251 | S16 | (3rd harmonic current / base current)*1000  phase3 | R | 0.1 | Harmonic% rate | | |
| 5252 | S16 | (5th harmonic current/ base current)*1000  phase3 | R | 0.1 | Harmonic% rate | | |
| 5253 | S16 | (7th harmonic current / base current)*1000  phase3 | R | 0.1 | Harmonic% rate | | |
| 5254 | S16 | (9th harmonic current / base current)*1000  phase3 | R | 0.1 | Harmonic% rate | | |
| 5255 | S16 | (11th harmonic current / base current)*1000  phase3 | R | 0.1 | Harmonic% rate | | |
| 5256 | S16 | (13th harmonic current / base current)*1000  phase3 | R | 0.1 | Harmonic% rate | | |
| 5257 | S16 | (15th harmonic current / base current)*1000  phase3 | R | 0.1 | Harmonic% rate | | |
| 5258 | S16 | (17th harmonic current / base current)*1000  phase3 | R | 0.1 | Harmonic% rate | | |
| 5259 | S16 | (19th harmonic current / base current)*1000  phase3 | R | 0.1 | Harmonic% rate | | |
| 525A | S16 | (21th harmonic current / base current)*1000  phase3 | R | 0.1 | Harmonic% rate | | |
| 525B | S16 | (23th harmonic current / base current)*1000  phase3 | R | 0.1 | Harmonic% rate | | |
| 525C | S16 | (25th harmonic current / base current)*1000  phase3 | R | 0.1 | Harmonic% rate | | |
| 525D | S16 | (27h harmonic current / base current)*1000  phase3 | R | 0.1 | Harmonic% rate | | |
| 525E | S16 | (29th harmonic current / base current)*1000  phase3 | R | 0.1 | Harmonic% rate | | |
| 525F | S16 | (31th harmonic current / base current)*1000  phase3 | R | 0.1 | Harmonic% rate | | |

| Modbus Address (HEX) | modbus data type | Data Name | Read Write | Multiplier | Unit | Max. Value | Min. Value |
|---|---|---|---|---|---|---|---|
| 9000 | S16 | Phase1 voltage sinus signal Values 1 | R | 0.1 | Volt | | |
| 9001 | S16 | Phase1 voltage sinus signal Values 2 | R | 0.1 | Volt | | |
| 9002 | S16 | Phase1 voltage sinus signal Values 3 | R | 0.1 | Volt | | |
| 9003 | S16 | Phase1 voltage sinus signal Values 4 | R | 0.1 | Volt | | |
| 9004 | S16 | Phase1 voltage sinus signal Values 5 | R | 0.1 | Volt | | |
| 9005 | S16 | Phase1 voltage sinus signal Values 6 | R | 0.1 | Volt | | |
| 9006 | S16 | Phase1 voltage sinus signal Values 7 | R | 0.1 | Volt | | |
| 9007 | S16 | Phase1 voltage sinus signal Values 8 | R | 0.1 | Volt | | |
| 9008 | S16 | Phase1 voltage sinus signal Values 9 | R | 0.1 | Volt | | |
| 9009 | S16 | Phase1 voltage sinus signal Values 10 | R | 0.1 | Volt | | |
| 900A | S16 | Phase1 voltage sinus signal Values 11 | R | 0.1 | Volt | | |
| 900B | S16 | Phase1 voltage sinus signal Values 12 | R | 0.1 | Volt | | |
| 900C | S16 | Phase1 voltage sinus signal Values 13 | R | 0.1 | Volt | | |
| 900D | S16 | Phase1 voltage sinus signal Values 14 | R | 0.1 | Volt | | |
| 900E | S16 | Phase1 voltage sinus signal Values 15 | R | 0.1 | Volt | | |
| 900F | S16 | Phase1 voltage sinus signal Values 16 | R | 0.1 | Volt | | |
| 9010 | S16 | Phase1 voltage sinus signal Values 17 | R | 0.1 | Volt | | |
| 9011 | S16 | Phase1 voltage sinus signal Values 18 | R | 0.1 | Volt | | |
| 9012 | S16 | Phase1 voltage sinus signal Values 19 | R | 0.1 | Volt | | |
| 9013 | S16 | Phase1 voltage sinus signal Values 20 | R | 0.1 | Volt | | |
| 9014 | S16 | Phase1 voltage sinus signal Values 21 | R | 0.1 | Volt | | |
| 9015 | S16 | Phase1 voltage sinus signal Values 22 | R | 0.1 | Volt | | |

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|---|---|---|---|---|---|---|---|
| 9016 | S16 | Phase1 voltage sinus signal Values 23 | R | 0.1 | Volt | | |
| 9017 | S16 | Phase1 voltage sinus signal Values 24 | R | 0.1 | Volt | | |
| 9018 | S16 | Phase1 voltage sinus signal Values 25 | R | 0.1 | Volt | | |
| 9019 | S16 | Phase1 voltage sinus signal Values 26 | R | 0.1 | Volt | | |
| 901A | S16 | Phase1 voltage sinus signal Values 27 | R | 0.1 | Volt | | |
| 901B | S16 | Phase1 voltage sinus signal Values 28 | R | 0.1 | Volt | | |
| 901C | S16 | Phase1 voltage sinus signal Values 29 | R | 0.1 | Volt | | |
| 901D | S16 | Phase1 voltage sinus signal Values 30 | R | 0.1 | Volt | | |
| 901E | S16 | Phase1 voltage sinus signal Values 31 | R | 0.1 | Volt | | |
| 901F | S16 | Phase1 voltage sinus signal Values 32 | R | 0.1 | Volt | | |
| 9020 | S16 | Phase1 voltage sinus signal Values 33 | R | 0.1 | Volt | | |
| 9021 | S16 | Phase1 voltage sinus signal Values 34 | R | 0.1 | Volt | | |
| 9022 | S16 | Phase1 voltage sinus signal Values 35 | R | 0.1 | Volt | | |
| 9023 | S16 | Phase1 voltage sinus signal Values 36 | R | 0.1 | Volt | | |
| 9024 | S16 | Phase1 voltage sinus signal Values 37 | R | 0.1 | Volt | | |
| 9025 | S16 | Phase1 voltage sinus signal Values 38 | R | 0.1 | Volt | | |
| 9026 | S16 | Phase1 voltage sinus signal Values 39 | R | 0.1 | Volt | | |
| 9027 | S16 | Phase1 voltage sinus signal Values 40 | R | 0.1 | Volt | | |
| 9028 | S16 | Phase1 voltage sinus signal Values 41 | R | 0.1 | Volt | | |
| 9029 | S16 | Phase1 voltage sinus signal Values 42 | R | 0.1 | Volt | | |
| 902A | S16 | Phase1 voltage sinus signal Values 43 | R | 0.1 | Volt | | |
| 902B | S16 | Phase1 voltage sinus signal Values 44 | R | 0.1 | Volt | | |
| 902C | S16 | Phase1 voltage sinus signal Values 45 | R | 0.1 | Volt | | |
| 902D | S16 | Phase1 voltage sinus signal Values 46 | R | 0.1 | Volt | | |
| 902E | S16 | Phase1 voltage sinus signal Values 47 | R | 0.1 | Volt | | |
| 902F | S16 | Phase1 voltage sinus signal Values 48 | R | 0.1 | Volt | | |
| 9030 | S16 | Phase1 voltage sinus signal Values 49 | R | 0.1 | Volt | | |
| 9031 | S16 | Phase1 voltage sinus signal Values 50 | R | 0.1 | Volt | | |
| 9032 | S16 | Phase1 voltage sinus signal Values 51 | R | 0.1 | Volt | | |
| 9033 | S16 | Phase1 voltage sinus signal Values 52 | R | 0.1 | Volt | | |
| 9034 | S16 | Phase1 voltage sinus signal Values 53 | R | 0.1 | Volt | | |
| 9035 | S16 | Phase1 voltage sinus signal Values 54 | R | 0.1 | Volt | | |
| 9036 | S16 | Phase1 voltage sinus signal Values 55 | R | 0.1 | Volt | | |
| 9037 | S16 | Phase1 voltage sinus signal Values 56 | R | 0.1 | Volt | | |
| 9038 | S16 | Phase1 voltage sinus signal Values 57 | R | 0.1 | Volt | | |
| 9039 | S16 | Phase1 voltage sinus signal Values 58 | R | 0.1 | Volt | | |
| 903A | S16 | Phase1 voltage sinus signal Values 59 | R | 0.1 | Volt | | |
| 903B | S16 | Phase1 voltage sinus signal Values 60 | R | 0.1 | Volt | | |
| 903C | S16 | Phase2 voltage sinus signal Values 1 | R | 0.1 | Volt | | |
| 903D | S16 | Phase2 voltage sinus signal Values 2 | R | 0.1 | Volt | | |
| 903E | S16 | Phase2 voltage sinus signal Values 3 | R | 0.1 | Volt | | |
| 903F | S16 | Phase2 voltage sinus signal Values 4 | R | 0.1 | Volt | | |
| 9040 | S16 | Phase2 voltage sinus signal Values 5 | R | 0.1 | Volt | | |
| 9041 | S16 | Phase2 voltage sinus signal Values 6 | R | 0.1 | Volt | | |
| 9042 | S16 | Phase2 voltage sinus signal Values 7 | R | 0.1 | Volt | | |
| 9043 | S16 | Phase2 voltage sinus signal Values 8 | R | 0.1 | Volt | | |
| 9044 | S16 | Phase2 voltage sinus signal Values 9 | R | 0.1 | Volt | | |
| 9045 | S16 | Phase2 voltage sinus signal Values 10 | R | 0.1 | Volt | | |

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|---|---|---|---|---|---|---|---|
| 9046 | S16 | Phase2 voltage sinus signal Values 11 | R | 0.1 | Volt | | |
| 9047 | S16 | Phase2 voltage sinus signal Values 12 | R | 0.1 | Volt | | |
| 9048 | S16 | Phase2 voltage sinus signal Values 13 | R | 0.1 | Volt | | |
| 9049 | S16 | Phase2 voltage sinus signal Values 14 | R | 0.1 | Volt | | |
| 904A | S16 | Phase2 voltage sinus signal Values 15 | R | 0.1 | Volt | | |
| 904B | S16 | Phase2 voltage sinus signal Values 16 | R | 0.1 | Volt | | |
| 904C | S16 | Phase2 voltage sinus signal Values 17 | R | 0.1 | Volt | | |
| 904D | S16 | Phase2 voltage sinus signal Values 18 | R | 0.1 | Volt | | |
| 904E | S16 | Phase2 voltage sinus signal Values 19 | R | 0.1 | Volt | | |
| 904F | S16 | Phase2 voltage sinus signal Values 20 | R | 0.1 | Volt | | |
| 9050 | S16 | Phase2 voltage sinus signal Values 21 | R | 0.1 | Volt | | |
| 9051 | S16 | Phase2 voltage sinus signal Values 22 | R | 0.1 | Volt | | |
| 9052 | S16 | Phase2 voltage sinus signal Values 23 | R | 0.1 | Volt | | |
| 9053 | S16 | Phase2 voltage sinus signal Values 24 | R | 0.1 | Volt | | |
| 9054 | S16 | Phase2 voltage sinus signal Values 25 | R | 0.1 | Volt | | |
| 9055 | S16 | Phase2 voltage sinus signal Values 26 | R | 0.1 | Volt | | |
| 9056 | S16 | Phase2 voltage sinus signal Values 27 | R | 0.1 | Volt | | |
| 9057 | S16 | Phase2 voltage sinus signal Values 28 | R | 0.1 | Volt | | |
| 9058 | S16 | Phase2 voltage sinus signal Values 29 | R | 0.1 | Volt | | |
| 9059 | S16 | Phase2 voltage sinus signal Values 30 | R | 0.1 | Volt | | |
| 905A | S16 | Phase2 voltage sinus signal Values 31 | R | 0.1 | Volt | | |
| 905B | S16 | Phase2 voltage sinus signal Values 32 | R | 0.1 | Volt | | |
| 905C | S16 | Phase2 voltage sinus signal Values 33 | R | 0.1 | Volt | | |
| 905D | S16 | Phase2 voltage sinus signal Values 34 | R | 0.1 | Volt | | |
| 905E | S16 | Phase2 voltage sinus signal Values 35 | R | 0.1 | Volt | | |
| 905F | S16 | Phase2 voltage sinus signal Values 36 | R | 0.1 | Volt | | |
| 9060 | S16 | Phase2 voltage sinus signal Values 37 | R | 0.1 | Volt | | |
| 9061 | S16 | Phase2 voltage sinus signal Values 38 | R | 0.1 | Volt | | |
| 9062 | S16 | Phase2 voltage sinus signal Values 39 | R | 0.1 | Volt | | |
| 9063 | S16 | Phase2 voltage sinus signal Values 40 | R | 0.1 | Volt | | |
| 9064 | S16 | Phase2 voltage sinus signal Values 41 | R | 0.1 | Volt | | |
| 9065 | S16 | Phase2 voltage sinus signal Values 42 | R | 0.1 | Volt | | |
| 9066 | S16 | Phase2 voltage sinus signal Values 43 | R | 0.1 | Volt | | |
| 9067 | S16 | Phase2 voltage sinus signal Values 44 | R | 0.1 | Volt | | |
| 9068 | S16 | Phase2 voltage sinus signal Values 45 | R | 0.1 | Volt | | |
| 9069 | S16 | Phase2 voltage sinus signal Values 46 | R | 0.1 | Volt | | |
| 906A | S16 | Phase2 voltage sinus signal Values 47 | R | 0.1 | Volt | | |
| 906B | S16 | Phase2 voltage sinus signal Values 48 | R | 0.1 | Volt | | |
| 906C | S16 | Phase2 voltage sinus signal Values 49 | R | 0.1 | Volt | | |
| 906D | S16 | Phase2 voltage sinus signal Values 50 | R | 0.1 | Volt | | |
| 906E | S16 | Phase2 voltage sinus signal Values 51 | R | 0.1 | Volt | | |
| 906F | S16 | Phase2 voltage sinus signal Values 52 | R | 0.1 | Volt | | |
| 9070 | S16 | Phase2 voltage sinus signal Values 53 | R | 0.1 | Volt | | |
| 9071 | S16 | Phase2 voltage sinus signal Values 54 | R | 0.1 | Volt | | |
| 9072 | S16 | Phase2 voltage sinus signal Values 55 | R | 0.1 | Volt | | |
| 9073 | S16 | Phase2 voltage sinus signal Values 56 | R | 0.1 | Volt | | |
| 9074 | S16 | Phase2 voltage sinus signal Values 57 | R | 0.1 | Volt | | |
| 9075 | S16 | Phase2 voltage sinus signal Values 58 | R | 0.1 | Volt | | |

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|---|---|---|---|---|---|---|---|
| 9076 | S16 | Phase2 voltage sinus signal Values 59 | R | 0.1 | Volt | | |
| 9077 | S16 | Phase2 voltage sinus signal Values 60 | R | 0.1 | Volt | | |
| 9078 | S16 | Phase3 voltage sinus signal Values 1 | R | 0.1 | Volt | | |
| 9079 | S16 | Phase3 voltage sinus signal Values 2 | R | 0.1 | Volt | | |
| 907A | S16 | Phase3 voltage sinus signal Values 3 | R | 0.1 | Volt | | |
| 907B | S16 | Phase3 voltage sinus signal Values 4 | R | 0.1 | Volt | | |
| 907C | S16 | Phase3 voltage sinus signal Values 5 | R | 0.1 | Volt | | |
| 907D | S16 | Phase3 voltage sinus signal Values 6 | R | 0.1 | Volt | | |
| 907E | S16 | Phase3 voltage sinus signal Values 7 | R | 0.1 | Volt | | |
| 907F | S16 | Phase3 voltage sinus signal Values 8 | R | 0.1 | Volt | | |
| 9080 | S16 | Phase3 voltage sinus signal Values 9 | R | 0.1 | Volt | | |
| 9081 | S16 | Phase3 voltage sinus signal Values 10 | R | 0.1 | Volt | | |
| 9082 | S16 | Phase3 voltage sinus signal Values 11 | R | 0.1 | Volt | | |
| 9083 | S16 | Phase3 voltage sinus signal Values 12 | R | 0.1 | Volt | | |
| 9084 | S16 | Phase3 voltage sinus signal Values 13 | R | 0.1 | Volt | | |
| 9085 | S16 | Phase3 voltage sinus signal Values 14 | R | 0.1 | Volt | | |
| 9086 | S16 | Phase3 voltage sinus signal Values 15 | R | 0.1 | Volt | | |
| 9087 | S16 | Phase3 voltage sinus signal Values 16 | R | 0.1 | Volt | | |
| 9088 | S16 | Phase3 voltage sinus signal Values 17 | R | 0.1 | Volt | | |
| 9089 | S16 | Phase3 voltage sinus signal Values 18 | R | 0.1 | Volt | | |
| 908A | S16 | Phase3 voltage sinus signal Values 19 | R | 0.1 | Volt | | |
| 908B | S16 | Phase3 voltage sinus signal Values 20 | R | 0.1 | Volt | | |
| 908C | S16 | Phase3 voltage sinus signal Values 21 | R | 0.1 | Volt | | |
| 908D | S16 | Phase3 voltage sinus signal Values 22 | R | 0.1 | Volt | | |
| 908E | S16 | Phase3 voltage sinus signal Values 23 | R | 0.1 | Volt | | |
| 908F | S16 | Phase3 voltage sinus signal Values 24 | R | 0.1 | Volt | | |
| 9090 | S16 | Phase3 voltage sinus signal Values 25 | R | 0.1 | Volt | | |
| 9091 | S16 | Phase3 voltage sinus signal Values 26 | R | 0.1 | Volt | | |
| 9092 | S16 | Phase3 voltage sinus signal Values 27 | R | 0.1 | Volt | | |
| 9093 | S16 | Phase3 voltage sinus signal Values 28 | R | 0.1 | Volt | | |
| 9094 | S16 | Phase3 voltage sinus signal Values 29 | R | 0.1 | Volt | | |
| 9095 | S16 | Phase3 voltage sinus signal Values 30 | R | 0.1 | Volt | | |
| 9096 | S16 | Phase3 voltage sinus signal Values 31 | R | 0.1 | Volt | | |
| 9097 | S16 | Phase3 voltage sinus signal Values 32 | R | 0.1 | Volt | | |
| 9098 | S16 | Phase3 voltage sinus signal Values 33 | R | 0.1 | Volt | | |
| 9099 | S16 | Phase3 voltage sinus signal Values 34 | R | 0.1 | Volt | | |
| 909A | S16 | Phase3 voltage sinus signal Values 35 | R | 0.1 | Volt | | |
| 909B | S16 | Phase3 voltage sinus signal Values 36 | R | 0.1 | Volt | | |
| 909C | S16 | Phase3 voltage sinus signal Values 37 | R | 0.1 | Volt | | |
| 909D | S16 | Phase3 voltage sinus signal Values 38 | R | 0.1 | Volt | | |
| 909E | S16 | Phase3 voltage sinus signal Values 39 | R | 0.1 | Volt | | |
| 909F | S16 | Phase3 voltage sinus signal Values 40 | R | 0.1 | Volt | | |
| 90A0 | S16 | Phase3 voltage sinus signal Values 41 | R | 0.1 | Volt | | |
| 90A1 | S16 | Phase3 voltage sinus signal Values 42 | R | 0.1 | Volt | | |
| 90A2 | S16 | Phase3 voltage sinus signal Values 43 | R | 0.1 | Volt | | |
| 90A3 | S16 | Phase3 voltage sinus signal Values 44 | R | 0.1 | Volt | | |
| 90A4 | S16 | Phase3 voltage sinus signal Values 45 | R | 0.1 | Volt | | |
| 90A5 | S16 | Phase3 voltage sinus signal Values 46 | R | 0.1 | Volt | | |

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|---|---|---|---|---|---|---|---|
| 90A6 | S16 | Phase3 voltage sinus signal Values 47 | R | 0.1 | Volt | | |
| 90A7 | S16 | Phase3 voltage sinus signal Values 48 | R | 0.1 | Volt | | |
| 90A8 | S16 | Phase3 voltage sinus signal Values 49 | R | 0.1 | Volt | | |
| 90A9 | S16 | Phase3 voltage sinus signal Values 50 | R | 0.1 | Volt | | |
| 90AA | S16 | Phase3 voltage sinus signal Values 51 | R | 0.1 | Volt | | |
| 90AB | S16 | Phase3 voltage sinus signal Values 52 | R | 0.1 | Volt | | |
| 90AC | S16 | Phase3 voltage sinus signal Values 53 | R | 0.1 | Volt | | |
| 90AD | S16 | Phase3 voltage sinus signal Values 54 | R | 0.1 | Volt | | |
| 90AE | S16 | Phase3 voltage sinus signal Values 55 | R | 0.1 | Volt | | |
| 90AF | S16 | Phase3 voltage sinus signal Values 56 | R | 0.1 | Volt | | |
| 90B0 | S16 | Phase3 voltage sinus signal Values 57 | R | 0.1 | Volt | | |
| 90B1 | S16 | Phase3 voltage sinus signal Values 58 | R | 0.1 | Volt | | |
| 90B2 | S16 | Phase3 voltage sinus signal Values 59 | R | 0.1 | Volt | | |
| 90B3 | S16 | Phase3 voltage sinus signal Values 60 | R | 0.1 | Volt | | |

| Modbus Address (HEX) | modbus data type | Data Name | Read Write | Multiplier | Unit | Max. Value | Min. Value |
|---|---|---|---|---|---|---|---|
| 9100 | S16 | Phase1 current sinus signal Values 1 | R | CTRF*0.001 | Amp | | |
| 9101 | S16 | Phase1 current sinus signal Values 2 | R | CTRF*0.001 | Amp | | |
| 9102 | S16 | Phase1 current sinus signal Values 3 | R | CTRF*0.001 | Amp | | |
| 9103 | S16 | Phase1 current sinus signal Values 4 | R | CTRF*0.001 | Amp | | |
| 9104 | S16 | Phase1 current sinus signal Values 5 | R | CTRF*0.001 | Amp | | |
| 9105 | S16 | Phase1 current sinus signal Values 6 | R | CTRF*0.001 | Amp | | |
| 9106 | S16 | Phase1 current sinus signal Values 7 | R | CTRF*0.001 | Amp | | |
| 9107 | S16 | Phase1 current sinus signal Values 8 | R | CTRF*0.001 | Amp | | |
| 9108 | S16 | Phase1 current sinus signal Values 9 | R | CTRF*0.001 | Amp | | |
| 9109 | S16 | Phase1 current sinus signal Values 10 | R | CTRF*0.001 | Amp | | |
| 910A | S16 | Phase1 current sinus signal Values 11 | R | CTRF*0.001 | Amp | | |
| 910B | S16 | Phase1 current sinus signal Values 12 | R | CTRF*0.001 | Amp | | |
| 910C | S16 | Phase1 current sinus signal Values 13 | R | CTRF*0.001 | Amp | | |
| 910D | S16 | Phase1 current sinus signal Values 14 | R | CTRF*0.001 | Amp | | |
| 910E | S16 | Phase1 current sinus signal Values 15 | R | CTRF*0.001 | Amp | | |
| 910F | S16 | Phase1 current sinus signal Values 16 | R | CTRF*0.001 | Amp | | |
| 9110 | S16 | Phase1 current sinus signal Values 17 | R | CTRF*0.001 | Amp | | |
| 9111 | S16 | Phase1 current sinus signal Values 18 | R | CTRF*0.001 | Amp | | |
| 9112 | S16 | Phase1 current sinus signal Values 19 | R | CTRF*0.001 | Amp | | |
| 9113 | S16 | Phase1 current sinus signal Values 20 | R | CTRF*0.001 | Amp | | |
| 9114 | S16 | Phase1 current sinus signal Values 21 | R | CTRF*0.001 | Amp | | |
| 9115 | S16 | Phase1 current sinus signal Values 22 | R | CTRF*0.001 | Amp | | |
| 9116 | S16 | Phase1 current sinus signal Values 23 | R | CTRF*0.001 | Amp | | |
| 9117 | S16 | Phase1 current sinus signal Values 24 | R | CTRF*0.001 | Amp | | |
| 9118 | S16 | Phase1 current sinus signal Values 25 | R | CTRF*0.001 | Amp | | |
| 9119 | S16 | Phase1 current sinus signal Values 26 | R | CTRF*0.001 | Amp | | |
| 911A | S16 | Phase1 current sinus signal Values 27 | R | CTRF*0.001 | Amp | | |
| 911B | S16 | Phase1 current sinus signal Values 28 | R | CTRF*0.001 | Amp | | |

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|---|---|---|---|---|---|---|---|
| 911C | S16 | Phase1 current sinus signal Values 29 | R | CTRF*0.001 | Amp | | |
| 911D | S16 | Phase1 current sinus signal Values 30 | R | CTRF*0.001 | Amp | | |
| 911E | S16 | Phase1 current sinus signal Values 31 | R | CTRF*0.001 | Amp | | |
| 911F | S16 | Phase1 current sinus signal Values 32 | R | CTRF*0.001 | Amp | | |
| 9120 | S16 | Phase1 current sinus signal Values 33 | R | CTRF*0.001 | Amp | | |
| 9121 | S16 | Phase1 current sinus signal Values 34 | R | CTRF*0.001 | Amp | | |
| 9122 | S16 | Phase1 current sinus signal Values 35 | R | CTRF*0.001 | Amp | | |
| 9123 | S16 | Phase1 current sinus signal Values 36 | R | CTRF*0.001 | Amp | | |
| 9124 | S16 | Phase1 current sinus signal Values 37 | R | CTRF*0.001 | Amp | | |
| 9125 | S16 | Phase1 current sinus signal Values 38 | R | CTRF*0.001 | Amp | | |
| 9126 | S16 | Phase1 current sinus signal Values 39 | R | CTRF*0.001 | Amp | | |
| 9127 | S16 | Phase1 current sinus signal Values 40 | R | CTRF*0.001 | Amp | | |
| 9128 | S16 | Phase1 current sinus signal Values 41 | R | CTRF*0.001 | Amp | | |
| 9129 | S16 | Phase1 current sinus signal Values 42 | R | CTRF*0.001 | Amp | | |
| 912A | S16 | Phase1 current sinus signal Values 43 | R | CTRF*0.001 | Amp | | |
| 912B | S16 | Phase1 current sinus signal Values 44 | R | CTRF*0.001 | Amp | | |
| 912C | S16 | Phase1 current sinus signal Values 45 | R | CTRF*0.001 | Amp | | |
| 912D | S16 | Phase1 current sinus signal Values 46 | R | CTRF*0.001 | Amp | | |
| 912E | S16 | Phase1 current sinus signal Values 47 | R | CTRF*0.001 | Amp | | |
| 912F | S16 | Phase1 current sinus signal Values 48 | R | CTRF*0.001 | Amp | | |
| 9130 | S16 | Phase1 current sinus signal Values 49 | R | CTRF*0.001 | Amp | | |
| 9131 | S16 | Phase1 current sinus signal Values 50 | R | CTRF*0.001 | Amp | | |
| 9132 | S16 | Phase1 current sinus signal Values 51 | R | CTRF*0.001 | Amp | | |
| 9133 | S16 | Phase1 current sinus signal Values 52 | R | CTRF*0.001 | Amp | | |
| 9134 | S16 | Phase1 current sinus signal Values 53 | R | CTRF*0.001 | Amp | | |
| 9135 | S16 | Phase1 current sinus signal Values 54 | R | CTRF*0.001 | Amp | | |
| 9136 | S16 | Phase1 current sinus signal Values 55 | R | CTRF*0.001 | Amp | | |
| 9137 | S16 | Phase1 current sinus signal Values 56 | R | CTRF*0.001 | Amp | | |
| 9138 | S16 | Phase1 current sinus signal Values 57 | R | CTRF*0.001 | Amp | | |
| 9139 | S16 | Phase1 current sinus signal Values 58 | R | CTRF*0.001 | Amp | | |
| 913A | S16 | Phase1 current sinus signal Values 59 | R | CTRF*0.001 | Amp | | |
| 913B | S16 | Phase1 current sinus signal Values 60 | R | CTRF*0.001 | Amp | | |
| 913C | S16 | Phase2 current sinus signal Values 1 | R | CTRF*0.001 | Amp | | |
| 913D | S16 | Phase2 current sinus signal Values 2 | R | CTRF*0.001 | Amp | | |
| 913E | S16 | Phase2 current sinus signal Values 3 | R | CTRF*0.001 | Amp | | |
| 913F | S16 | Phase2 current sinus signal Values 4 | R | CTRF*0.001 | Amp | | |
| 9140 | S16 | Phase2 current sinus signal Values 5 | R | CTRF*0.001 | Amp | | |
| 9141 | S16 | Phase2 current sinus signal Values 6 | R | CTRF*0.001 | Amp | | |
| 9142 | S16 | Phase2 current sinus signal Values 7 | R | CTRF*0.001 | Amp | | |
| 9143 | S16 | Phase2 current sinus signal Values 8 | R | CTRF*0.001 | Amp | | |
| 9144 | S16 | Phase2 current sinus signal Values 9 | R | CTRF*0.001 | Amp | | |
| 9145 | S16 | Phase2 current sinus signal Values 10 | R | CTRF*0.001 | Amp | | |
| 9146 | S16 | Phase2 current sinus signal Values 11 | R | CTRF*0.001 | Amp | | |
| 9147 | S16 | Phase2 current sinus signal Values 12 | R | CTRF*0.001 | Amp | | |
| 9148 | S16 | Phase2 current sinus signal Values 13 | R | CTRF*0.001 | Amp | | |
| 9149 | S16 | Phase2 current sinus signal Values 14 | R | CTRF*0.001 | Amp | | |
| 914A | S16 | Phase2 current sinus signal Values 15 | R | CTRF*0.001 | Amp | | |
| 914B | S16 | Phase2 current sinus signal Values 16 | R | CTRF*0.001 | Amp | | |

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|---|---|---|---|---|---|---|---|
| 914C | S16 | Phase2 current sinus signal Values 17 | R | CTRF*0.001 | Amp | | |
| 914D | S16 | Phase2 current sinus signal Values 18 | R | CTRF*0.001 | Amp | | |
| 914E | S16 | Phase2 current sinus signal Values 19 | R | CTRF*0.001 | Amp | | |
| 914F | S16 | Phase2 current sinus signal Values 20 | R | CTRF*0.001 | Amp | | |
| 9150 | S16 | Phase2 current sinus signal Values 21 | R | CTRF*0.001 | Amp | | |
| 9151 | S16 | Phase2 current sinus signal Values 22 | R | CTRF*0.001 | Amp | | |
| 9152 | S16 | Phase2 current sinus signal Values 23 | R | CTRF*0.001 | Amp | | |
| 9153 | S16 | Phase2 current sinus signal Values 24 | R | CTRF*0.001 | Amp | | |
| 9154 | S16 | Phase2 current sinus signal Values 25 | R | CTRF*0.001 | Amp | | |
| 9155 | S16 | Phase2 current sinus signal Values 26 | R | CTRF*0.001 | Amp | | |
| 9156 | S16 | Phase2 current sinus signal Values 27 | R | CTRF*0.001 | Amp | | |
| 9157 | S16 | Phase2 current sinus signal Values 28 | R | CTRF*0.001 | Amp | | |
| 9158 | S16 | Phase2 current sinus signal Values 29 | R | CTRF*0.001 | Amp | | |
| 9159 | S16 | Phase2 current sinus signal Values 30 | R | CTRF*0.001 | Amp | | |
| 915A | S16 | Phase2 current sinus signal Values 31 | R | CTRF*0.001 | Amp | | |
| 915B | S16 | Phase2 current sinus signal Values 32 | R | CTRF*0.001 | Amp | | |
| 915C | S16 | Phase2 current sinus signal Values 33 | R | CTRF*0.001 | Amp | | |
| 915D | S16 | Phase2 current sinus signal Values 34 | R | CTRF*0.001 | Amp | | |
| 915E | S16 | Phase2 current sinus signal Values 35 | R | CTRF*0.001 | Amp | | |
| 915F | S16 | Phase2 current sinus signal Values 36 | R | CTRF*0.001 | Amp | | |
| 9160 | S16 | Phase2 current sinus signal Values 37 | R | CTRF*0.001 | Amp | | |
| 9161 | S16 | Phase2 current sinus signal Values 38 | R | CTRF*0.001 | Amp | | |
| 9162 | S16 | Phase2 current sinus signal Values 39 | R | CTRF*0.001 | Amp | | |
| 9163 | S16 | Phase2 current sinus signal Values 40 | R | CTRF*0.001 | Amp | | |
| 9164 | S16 | Phase2 current sinus signal Values 41 | R | CTRF*0.001 | Amp | | |
| 9165 | S16 | Phase2 current sinus signal Values 42 | R | CTRF*0.001 | Amp | | |
| 9166 | S16 | Phase2 current sinus signal Values 43 | R | CTRF*0.001 | Amp | | |
| 9167 | S16 | Phase2 current sinus signal Values 44 | R | CTRF*0.001 | Amp | | |
| 9168 | S16 | Phase2 current sinus signal Values 45 | R | CTRF*0.001 | Amp | | |
| 9169 | S16 | Phase2 current sinus signal Values 46 | R | CTRF*0.001 | Amp | | |
| 916A | S16 | Phase2 current sinus signal Values 47 | R | CTRF*0.001 | Amp | | |
| 916B | S16 | Phase2 current sinus signal Values 48 | R | CTRF*0.001 | Amp | | |
| 916C | S16 | Phase2 current sinus signal Values 49 | R | CTRF*0.001 | Amp | | |
| 916D | S16 | Phase2 current sinus signal Values 50 | R | CTRF*0.001 | Amp | | |
| 916E | S16 | Phase2 current sinus signal Values 51 | R | CTRF*0.001 | Amp | | |
| 916F | S16 | Phase2 current sinus signal Values 52 | R | CTRF*0.001 | Amp | | |
| 9170 | S16 | Phase2 current sinus signal Values 53 | R | CTRF*0.001 | Amp | | |
| 9171 | S16 | Phase2 current sinus signal Values 54 | R | CTRF*0.001 | Amp | | |
| 9172 | S16 | Phase2 current sinus signal Values 55 | R | CTRF*0.001 | Amp | | |
| 9173 | S16 | Phase2 current sinus signal Values 56 | R | CTRF*0.001 | Amp | | |
| 9174 | S16 | Phase2 current sinus signal Values 57 | R | CTRF*0.001 | Amp | | |
| 9175 | S16 | Phase2 current sinus signal Values 58 | R | CTRF*0.001 | Amp | | |
| 9176 | S16 | Phase2 current sinus signal Values 59 | R | CTRF*0.001 | Amp | | |
| 9177 | S16 | Phase2 current sinus signal Values 60 | R | CTRF*0.001 | Amp | | |
| 9178 | S16 | Phase3 current sinus signal Values 1 | R | CTRF*0.001 | Amp | | |
| 9179 | S16 | Phase3 current sinus signal Values 2 | R | CTRF*0.001 | Amp | | |
| 917A | S16 | Phase3 current sinus signal Values 3 | R | CTRF*0.001 | Amp | | |
| 917B | S16 | Phase3 current sinus signal Values 4 | R | CTRF*0.001 | Amp | | |

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|---|---|---|---|---|---|---|---|
| 917C | S16 | Phase3 current sinus signal Values 5 | R | CTRF*0.001 | Amp | | |
| 917D | S16 | Phase3 current sinus signal Values 6 | R | CTRF*0.001 | Amp | | |
| 917E | S16 | Phase3 current sinus signal Values 7 | R | CTRF*0.001 | Amp | | |
| 917F | S16 | Phase3 current sinus signal Values 8 | R | CTRF*0.001 | Amp | | |
| 9180 | S16 | Phase3 current sinus signal Values 9 | R | CTRF*0.001 | Amp | | |
| 9181 | S16 | Phase3 current sinus signal Values 10 | R | CTRF*0.001 | Amp | | |
| 9182 | S16 | Phase3 current sinus signal Values 11 | R | CTRF*0.001 | Amp | | |
| 9183 | S16 | Phase3 current sinus signal Values 12 | R | CTRF*0.001 | Amp | | |
| 9184 | S16 | Phase3 current sinus signal Values 13 | R | CTRF*0.001 | Amp | | |
| 9185 | S16 | Phase3 current sinus signal Values 14 | R | CTRF*0.001 | Amp | | |
| 9186 | S16 | Phase3 current sinus signal Values 15 | R | CTRF*0.001 | Amp | | |
| 9187 | S16 | Phase3 current sinus signal Values 16 | R | CTRF*0.001 | Amp | | |
| 9188 | S16 | Phase3 current sinus signal Values 17 | R | CTRF*0.001 | Amp | | |
| 9189 | S16 | Phase3 current sinus signal Values 18 | R | CTRF*0.001 | Amp | | |
| 918A | S16 | Phase3 current sinus signal Values 19 | R | CTRF*0.001 | Amp | | |
| 918B | S16 | Phase3 current sinus signal Values 20 | R | CTRF*0.001 | Amp | | |
| 918C | S16 | Phase3 current sinus signal Values 21 | R | CTRF*0.001 | Amp | | |
| 918D | S16 | Phase3 current sinus signal Values 22 | R | CTRF*0.001 | Amp | | |
| 918E | S16 | Phase3 current sinus signal Values 23 | R | CTRF*0.001 | Amp | | |
| 918F | S16 | Phase3 current sinus signal Values 24 | R | CTRF*0.001 | Amp | | |
| 9191 | S16 | Phase3 current sinus signal Values 25 | R | CTRF*0.001 | Amp | | |
| 9191 | S16 | Phase3 current sinus signal Values 26 | R | CTRF*0.001 | Amp | | |
| 9192 | S16 | Phase3 current sinus signal Values 27 | R | CTRF*0.001 | Amp | | |
| 9193 | S16 | Phase3 current sinus signal Values 28 | R | CTRF*0.001 | Amp | | |
| 9194 | S16 | Phase3 current sinus signal Values 29 | R | CTRF*0.001 | Amp | | |
| 9195 | S16 | Phase3 current sinus signal Values 30 | R | CTRF*0.001 | Amp | | |
| 9196 | S16 | Phase3 current sinus signal Values 31 | R | CTRF*0.001 | Amp | | |
| 9197 | S16 | Phase3 current sinus signal Values 32 | R | CTRF*0.001 | Amp | | |
| 9198 | S16 | Phase3 current sinus signal Values 33 | R | CTRF*0.001 | Amp | | |
| 9199 | S16 | Phase3 current sinus signal Values 34 | R | CTRF*0.001 | Amp | | |
| 919A | S16 | Phase3 current sinus signal Values 35 | R | CTRF*0.001 | Amp | | |
| 919B | S16 | Phase3 current sinus signal Values 36 | R | CTRF*0.001 | Amp | | |
| 919C | S16 | Phase3 current sinus signal Values 37 | R | CTRF*0.001 | Amp | | |
| 919D | S16 | Phase3 current sinus signal Values 38 | R | CTRF*0.001 | Amp | | |
| 919E | S16 | Phase3 current sinus signal Values 39 | R | CTRF*0.001 | Amp | | |
| 919F | S16 | Phase3 current sinus signal Values 40 | R | CTRF*0.001 | Amp | | |
| 91A0 | S16 | Phase3 current sinus signal Values 41 | R | CTRF*0.001 | Amp | | |
| 91A1 | S16 | Phase3 current sinus signal Values 42 | R | CTRF*0.001 | Amp | | |
| 91A2 | S16 | Phase3 current sinus signal Values 43 | R | CTRF*0.001 | Amp | | |
| 91A3 | S16 | Phase3 current sinus signal Values 44 | R | CTRF*0.001 | Amp | | |
| 91A4 | S16 | Phase3 current sinus signal Values 45 | R | CTRF*0.001 | Amp | | |
| 91A5 | S16 | Phase3 current sinus signal Values 46 | R | CTRF*0.001 | Amp | | |
| 91A6 | S16 | Phase3 current sinus signal Values 47 | R | CTRF*0.001 | Amp | | |
| 91A7 | S16 | Phase3 current sinus signal Values 48 | R | CTRF*0.001 | Amp | | |
| 91A8 | S16 | Phase3 current sinus signal Values 49 | R | CTRF*0.001 | Amp | | |
| 91A9 | S16 | Phase3 current sinus signal Values 50 | R | CTRF*0.001 | Amp | | |
| 91AA | S16 | Phase3 current sinus signal Values 51 | R | CTRF*0.001 | Amp | | |
| 91AB | S16 | Phase3 current sinus signal Values 52 | R | CTRF*0.001 | Amp | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 91AC | S16 | Phase3 current sinus signal Values 53 | R | CTRF*0.001 | Amp | | |
| 91AD | S16 | Phase3 current sinus signal Values 54 | R | CTRF*0.001 | Amp | | |
| 91AE | S16 | Phase3 current sinus signal Values 55 | R | CTRF*0.001 | Amp | | |
| 91AF | S16 | Phase3 current sinus signal Values 56 | R | CTRF*0.001 | Amp | | |
| 91B0 | S16 | Phase3 current sinus signal Values 57 | R | CTRF*0.001 | Amp | | |
| 91B1 | S16 | Phase3 current sinus signal Values 58 | R | CTRF*0.001 | Amp | | |
| 91B2 | S16 | Phase3 current sinus signal Values 59 | R | CTRF*0.001 | Amp | | |
| 91B3 | S16 | Phase3 current sinus signal Values 60 | R | CTRF*0.001 | Amp | | |

| Modbus Address (HEX) | modbus data type | Data Name | Read Write | Multiplier | Unit | Max. Value | Min. Value |
|---|---|---|---|---|---|---|---|
| 9FFF | U16 | Sinus Sinyal Sample Control Register<br>0:no process<br>1:Process start<br>2:taking signal sample and calculating<br>3:signal values are ready. | R/W | --------- | --------- | 1 | 1 |

| Modbus Address (HEX) | modbus data type | Data Name | Read Write | Multiplier | Unit | Max. Value | Min. Value |
|---|---|---|---|---|---|---|---|
| FF00 | U16 | phase1 over voltage alarm counter | R | --------- | quantity | | |
| FF01 | U16 | phase1 under voltage alarm counter | R | --------- | quantity | | |
| FF02 | U16 | phase1 over current alarm counter | R | --------- | quantity | | |
| FF03 | U16 | phase1 over compansation alarm counter | R | --------- | quantity | | |
| FF04 | U16 | phase1 under compansation alarm counter | R | --------- | quantity | | |
| FF05 | U16 | phase1 missing phase alarm counter | R | --------- | quantity | | |
| FF06 | U16 | phase1 over thdv counter | R | --------- | quantity | | |
| FF07 | U16 | phase1 over hdv counter | R | --------- | quantity | | |
| FF08 | U16 | phase1 over thdc counter | R | --------- | quantity | | |
| FF09 | U16 | phase1 over hdc counter | R | --------- | quantity | | |
| FF0A | U16 | phase2 over voltage alarm counter | R | --------- | quantity | | |
| FF0B | U16 | phase2 under voltage alarm counter | R | --------- | quantity | | |
| FF0C | U16 | phase2 over current alarm counter | R | --------- | quantity | | |
| FF0D | U16 | phase2 over compansation alarm counter | R | --------- | quantity | | |
| FF0E | U16 | phase2 under compansation alarm counter | R | --------- | quantity | | |
| FF0F | U16 | phase2 missing phase alarm counter | R | --------- | quantity | | |
| FF10 | U16 | phase2 over thdv counter | R | --------- | quantity | | |
| FF11 | U16 | phase2 over hdv counter | R | --------- | quantity | | |
| FF12 | U16 | phase2 over thdc counter | R | --------- | quantity | | |
| FF13 | U16 | phase2 over hdc counter | R | --------- | quantity | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FF14 | U16 | phase3 over voltage alarm counter | R | --------- | quantity | | |
| FF15 | U16 | phase3 under voltage alarm counter | R | --------- | quantity | | |
| FF16 | U16 | phase3 over current alarm counter | R | --------- | quantity | | |
| FF17 | U16 | phase3 over compansation alarm counter | R | --------- | quantity | | |
| FF18 | U16 | phase3 under compansation alarm counter | R | --------- | quantity | | |
| FF19 | U16 | phase3 missing phase alarm counter | R | --------- | quantity | | |
| FF1A | U16 | phase3 over thdv counter | R | --------- | quantity | | |
| FF1B | U16 | phase3 over hdv counter | R | --------- | quantity | | |
| FF1C | U16 | phase3 over thdc counter | R | --------- | quantity | | |
| FF1D | U16 | phase3 over hdc counter | R | --------- | quantity | | |
| FF1E | U16 | General purpose over compensation alarm counter | R | --------- | quantity | | |
| FF1F | U16 | General purpose under compensation alarm counter | R | --------- | quantity | | |
| FF20 | U16 | Over Heat Occured Counter. | R | --------- | quantity | | |
| FF21 | U16 | alarm counter reset command register | W | --------- | --------- | 0x55AA | 0x55AA |

| Modbus Address (HEX) | modbus data type | Data Name | Read Write | Multiplier | Unit | Max. Value | Min. Value |
|---|---|---|---|---|---|---|---|
| FFFC | U16 | RESET DEVICE ENERGY | W | --------- | --------- | 0x55AA | 0x55AA |
| FFFD | U16 | RESET INDEXED ENERGY! | W | --------- | --------- | 0x55AA | 0x55AA |
| FFFE | U16 | RESET DEFAULT! (RETURN TO FACTORY DEFAULT) | W | --------- | --------- | 0x55AA | 0x55AA |
| FFFF | U16 | MODBUS RESET COMMAND! | W | --------- | --------- | 0x55AA | 0x55AA |