

9900AEGIS ModbusTCP Register List

The data from the UPS is presented as Holding Registers (3x). Several data parameters contain an implied decimal place for greater precision. For example, register 1106 indicates the bypass frequency of the bypass line and must be multiplied by 0.1 (a value of 599 indicates a frequency of 59.9Hz). These details are documented in the notes.

Register 3000 is a read only 16bit unsigned integer that reflects UPS mimic display data on the UPS System, Battery, Input, Output, and Bypass circuits.

Table 1
9900AEGIS Register List (Battery)

| Register | Measurement | Notes |
|----------|------------------------------|----------|
| 3x1106 | Bypass Frequency | x0.1 Hz |
| 3x1107 | Bypass Voltage | x0.1 VAC |
| 3x1108 | Bypass Voltage AB | x0.1 VAC |
| 3x1109 | Bypass Voltage BC | x0.1 VAC |
| 3x1110 | Bypass Voltage CA | x0.1 VAC |
| 3x1137 | Battery Voltage | x0.1 VAC |
| 3x1138 | Battery Current | x0.1 A |
| 3x1139 | Battery Capacity Remaining % | x0.01 % |
| 3x1480 | Battery Operation Count | Count |

Table 2
9900AEGIS Register List (Input)

| Register | Measurement | Notes |
|----------|------------------|----------|
| 3x1111 | Input Frequency | x0.1 Hz |
| 3x1112 | Input Voltage | x0.1 VAC |
| 3x1113 | Input Voltage AB | x0.1 VAC |
| 3x1114 | Input Voltage BC | x0.1 VAC |
| 3x1115 | Input Voltage CA | x0.1 VAC |

Table 3
9900AEGIS Register List (Output)

| Register | Measurement | Notes |
|----------|-------------------|----------|
| 3x1117 | Output Voltage AB | x0.1 VAC |
| 3x1118 | Output Voltage BC | x0.1 VAC |
| 3x1119 | Output Voltage CA | x0.1 VAC |
| 3x1123 | Output Frequency | x0.1 Hz |
| 3x1124 | Output Voltage | x0.1 VAC |
| 3x1125 | Power Factor | x0.01 |
| 3x1126 | Output Current A | x0.1 A |
| 3x1127 | Output Current B | x0.1 A |
| 3x1128 | Output Current C | x0.1 A |
| 3x1130 | Output Current %A | x0.01 % |
| 3x1131 | Output Current %B | x0.01 % |
| 3x1132 | Output Current %C | x0.01 % |
| 3x1134 | Output KW | x0.1 KW |
| 3x1135 | Output Power % | x0.01 % |

Table 4
9900AEGIS Register List (Identification)

| Register | Measurement | Notes |
|----------|-----------------------|---------|
| 3x1145 | Total # of Faults | Count |
| 3x1315 | Module KVA | KVA |
| 3x1316 | Module Input Voltage | VAC |
| 3x1317 | Module Output Voltage | VAC |
| 3x1372 | Module ID # | Numeral |

Table 5
9900AEGIS Register List (Mimic Display)

| Register | Bit | Description |
|----------|-----|--|
| 3x3000 | 0 | UPS AC Input |
| | 1 | UPS CB1 Input Contactor |
| | 2 | DC Voltage Ok |
| | 3 | CB2 Battery Circuit Breaker |
| | 4 | UPS Inverter Operation |
| | 5 | UPS 52C AC Output Contactor |
| | 6 | UPS Bypass Input |
| | 7 | UPS 52S Bypass Output Contactor |
| | 8 | UPS AC Output |
| | 9 | UPS MultiModule System Synchronization |
| | 10 | Bypass Output On |
| | 11 | |
| | 12 | UPS Rectifier Operation |
| | 13 | Battery Discharging |
| | 14 | UPS Fault |
| | 15 | |

Table 6
9900AEGIS Register List (Events/Alarms)

| Register | Values | | Description |
|----------|--------|-------|-------------------|
| 3x2000 | | | Alarm register 1 |
| 3x2004 | | | Alarm register 2 |
| 3x2008 | | | Alarm register 3 |
| 3x2012 | | | Alarm register 4 |
| 3x2016 | | | Alarm register 5 |
| 3x2020 | | | Alarm register 6 |
| 3x2024 | | | Alarm register 7 |
| 3x2028 | | | Alarm register 8 |
| 3x2032 | | | Alarm register 9 |
| 3x2036 | | | Alarm register 10 |
| | X=001 | UF001 | I/P CIRCUIT ABL. |
| | X=002 | UF002 | CONV OVERCURRENT |
| | X=003 | UF003 | CONVERTER ABNL. |
| | X=011 | UF011 | CB1 ABNORMAL |

| | | |
|-------|-------|--------------------|
| X=052 | UF052 | CB1 ABNORMAL |
| X=056 | UF056 | CONV.OVERCURRENT |
| X=059 | UF059 | I/P CIRCUIT ABL. |
| X=102 | UF102 | DC OVERVOLTAGE |
| X=103 | UF103 | DC UNDERVOLTAGE |
| X=108 | UF108 | CHOP.OVERCURRENT |
| X=109 | UF109 | DC UNBALANCED |
| X=110 | UF110 | ZERO PHASE OC. |
| X=112 | UF112 | DC CIRCUIT ABNL. |
| X=128 | UF128 | CTRL.PWR. ABNL. |
| X=119 | UF119 | GROUND FAULT |
| X=159 | UF159 | GROUND FAULT |
| X=151 | UF151 | BAT.VOLTAGE ABNL. |
| X=152 | UF152 | BAT.VOLTAGE ABNL. |
| X=154 | UF154 | CB2 ABNORMAL |
| X=156 | UF156 | CHG.STOPPED |
| X=157 | UF157 | BATTERY OVERTEMP. |
| X=158 | UF158 | BATTERY LIQUID LOW |
| X=161 | UF161 | CHG.STOPPED |
| X=162 | UF162 | BATTERY ABNORMAL |
| X=163 | UF163 | BAT.VOLTAGE ABNL. |
| X=172 | UF172 | CHG.STOPPED |
| X=201 | UF201 | INVERTER OV. |
| X=202 | UF202 | INVERTER UV. |
| X=203 | UF203 | INVERTER OC. |
| X=204 | UF204 | O/P CIRCUIT ABNL. |
| X=206 | UF206 | CTRL.CIRCUIT ERR. |
| X=207 | UF207 | ZERO PHASE OC. |
| X=208 | UF208 | CTRL.CIRCUIT ERR. |
| X=209 | UF209 | 52C ABNORMAL |
| X=210 | UF210 | 52C ABNORMAL |
| X=211 | UF211 | 52C ABNORMAL |
| X=214 | UF214 | COOLING FAN ABNL. |
| X=213 | UF213 | OVERTEMPERATURE |
| X=230 | UF230 | ZERO PHASE OC. |
| X=217 | UF217 | INVERTER OV. |
| X=253 | UF253 | CTRL.CIRCUIT ERR. |
| X=256 | UF256 | O/P VOLTAGE ABNL. |
| X=257 | UF257 | 52C ABNORMAL |
| X=258 | UF258 | LOAD ABNORMAL |
| X=259 | UF259 | ANOTHER UPS ABNL. |
| X=301 | UF301 | CTRL.CIRCUIT ERR. |
| X=302 | UF302 | CTRL.CIRCUIT ERR. |
| X=303 | UF303 | CTRL.CIRCUIT ERR. |
| X=323 | UF323 | CTRL.CIRCUIT ERR. |
| X=305 | UF305 | CTRL.CIRCUIT ERR. |
| X=306 | UF306 | CTRL.CIRCUIT ERR. |
| X=309 | UF309 | INV.VOLTAGE ABNL. |
| X=310 | UF310 | CTRL.PWR. ABNL. |

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|-------|-------|--------------------|
| X=331 | UF331 | CTRL.CIRCUIT ERR. |
| X=332 | UF332 | CTRL.CIRCUIT ERR. |
| X=333 | UF333 | CTRL.CIRCUIT ERR. |
| X=334 | UF334 | CTRL.CIRCUIT ERR. |
| X=352 | UF352 | CTRL.PWR. ABNL. |
| X=363 | UF363 | CTRL.CIRCUIT ERR. |
| X=372 | UF372 | CTRL.CIRCUIT ERR. |
| X=374 | UF374 | CTRL.CIRCUIT ERR. |
| X=375 | UF375 | CTRL.CIRCUIT ERR. |
| X=376 | UF376 | CTRL.CIRCUIT ERR. |
| X=377 | UF377 | CTRL.CIRCUIT ERR. |
| X=378 | UF378 | CTRL.CIRCUIT ERR. |
| X=379 | UF379 | CTRL.CIRCUIT ERR. |
| X=371 | UF371 | CTRL.CIRCUIT ERR. |
| X=401 | UF401 | 52S ABNORMAL |
| X=402 | UF402 | 52S ABNORMAL |
| X=420 | UF420 | 52L OPERATION ERR. |
| X=451 | UF451 | 52S ABNORMAL |
| X=452 | UF452 | CB3 ABNORMAL |
| X=801 | UA801 | I/P VOLT.OUT RNG. |
| X=802 | UA802 | I/P FREQ.OUT RNG. |
| X=803 | UA803 | I/P PHASE ABNL. |
| X=804 | UA804 | CONV.OPE.INHIBITED |
| X=805 | UA805 | INVERTER OVERLOAD |
| X=806 | UA806 | INVERTER OVERLOAD |
| X=807 | UA807 | INVERTER OVERLOAD |
| X=808 | UA808 | INVERTER OVERLOAD |
| X=810 | UA810 | INVERTER OVERLOAD |
| X=870 | UA870 | BALANCER OVERLOAD |
| X=812 | UA812 | BYPS.VOLT.OUT RNG. |
| X=813 | UA813 | BYPS.PHASE ABNL. |
| X=814 | UA814 | BYPS.FREQ.OUT RNG. |
| X=815 | UA815 | TRANS.INHIBITED |
| X=817 | UA817 | EMERG.STOP ACTIV. |
| X=821 | UA821 | TRANS.INHIBITED |
| X=822 | UA822 | TRANS.INHIBITED |
| X=824 | UA824 | CB2 OPEN |
| X=827 | UA827 | 52C OPE.INHIBITED |
| X=831 | UA831 | EMERG.BYPS.SW.ON |
| X=833 | UA833 | 52L OPEN |
| X=834 | UA834 | BATTERY DEPLETED |
| X=835 | UA835 | TRANS.INHIBITED |
| X=860 | UA860 | REM. BUTTON CLOSE |
| X=861 | UA861 | LOC. BUTTON ABNL. |
| X=890 | UA890 | EXTERNAL ALARM |
| X=828 | UA828 | FAN ALARM |
| X=380 | UF380 | ESTS CIRCUIT ERR. |
| X=381 | UF381 | ESTS CIRCUIT ERR. |
| X=461 | UF461 | OVERTEMPERATURE |
| X=871 | UA871 | BYP.VOLT.OUT RNG.2 |