



Modbus Register Map: Galaxy VS 10-100 kW

990-6131B

Notes:

- 16-bit registers are transmitted MSB first (i.e. big-endian).
- INT32 and UINT32 are most-significant word in n+0, least significant word in n+1 (i.e. big-endian).
- Function code 3 is supported.
- Modbus serial RTU and Modbus TCP is supported.
- Signed numbers are twos-compliment
- Status bits are atomic within a single Modbus register. User should not look for consistency across multiple registers, only within a single register.
- For ASCII strings less than the maximum length, the unused characters are filled with nulls.
- Single-register reads of reserved or undefined registers will return an error. Block reads which begin with a valid register will not return an error but will return zeros for undefined registers.
- Strings are two characters per register, first character in high-order byte, second character in low-order byte. Printable ASCII only.
- Bit #0 is least significant bit.
- Data Type column: "INT16"=signed 16-bit integer, "UINT16" = unsigned 16-bit integer, "INT32" = signed 32-bit integer, "UINT32" = unsigned 32-bit integer, "ENUM" is a UINT16 value which maps to a defined list of states, "ASCII" = the printable ASCII subset from 0x20 -0x7E. BOOLEAN= a single bit, 0 or 1.
- "Absolute Starting Register Address" = 0 (the column heading used in this table) is equivalent to "Register 40001" in Modicon terminology, which is address zero when transmitted over the wire.
- For register 4889, the multiplier has been modified from 0.01 to 0.1 and the divider has been changed from 100 to 10 when compared with earlier releases.
- This Modbus register map is compatible with firmware version 4.28 and higher.

For detailed Modbus configuration settings, please refer to the display.

| Modicon Standard Register Number | Absolute Starting Register Address, (Hexa-decimal) | Absolute Starting Register Address, (Decimal) | Bit | Data Point | Length | Data Type | Scale | | Valid Response |
|----------------------------------|--|---|-----|---|--------|-----------|----------------------|--------------------|---|
| | | | | | | | Multiply Reading By: | Divide Reading By: | |
| Status Data | | | | | | | | | |
| 40002 | 0x0001 | 1 | | UPS status | 1 | | | | |
| | | | 0 | UPS operation mode - Battery | | BOOLEAN | | | 1=UPS operation mode - Battery |
| | | | 1 | Battery is below minimum acceptable runtime | | BOOLEAN | | | 1=Battery is below minimum acceptable runtime |
| | | | 2 | Bypass | | BOOLEAN | | | 1=UPS is in bypass |
| | | | 3 | UPS operation mode - Battery test | | BOOLEAN | | | 1=UPS operation mode - Battery test |
| | | | 4 | Reserved | | BOOLEAN | | | |
| | | | 5 | Reserved | | BOOLEAN | | | |
| | | | 6 | Reserved | | BOOLEAN | | | |
| | | | 7 | Reserved | | BOOLEAN | | | |
| | | | 8 | Reserved | | BOOLEAN | | | |
| | | | 9 | Battery inoperable | | BOOLEAN | | | 1=Battery inoperable |
| | | | 10 | Reserved | | BOOLEAN | | | |
| | | | 11 | Reserved | | BOOLEAN | | | |
| | | | 12 | Reserved | | BOOLEAN | | | |
| | | | 13 | Informational alarm present | | BOOLEAN | | | 1=Informational alarm present |
| | | | 14 | Warning alarm present | | BOOLEAN | | | 1=Warning alarm present |
| | | | 15 | Critical alarm present | | BOOLEAN | | | 1=Critical alarm present |
| Alarm Register | | | | | | | | | |
| 40003 | 0x0002 | 2 | | Bypass | 1 | | | | |
| | | | 0 | Bypass voltage out of tolerance | | BOOLEAN | | | 1=Bypass voltage is out of tolerance and UPS is prevented from going into requested bypass mode |
| | | | 1 | Bypass phase sequence incorrect | | BOOLEAN | | | 1=The phase rotation on bypass is incorrect |
| | | | 2 | Bypass frequency out of tolerance | | BOOLEAN | | | 1=Bypass frequency is out of tolerance |

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|----------------------------------|--|---|-----|--|--------|-----------|----------------------|--------------------|--|
| | | | | | | | Multiply Reading By: | Divide Reading By: | |
| | | | 3 | Bypass phase missing | | BOOLEAN | | | 1=Bypass is missing a phase |
| | | | 4 | Bypass backfeed breaker open | | BOOLEAN | | | 1=Bypass backfeed breaker is open |
| | | | 5 | Reserved | | BOOLEAN | | | |
| | | | 6 | Reserved | | BOOLEAN | | | |
| | | | 7 | Reserved | | BOOLEAN | | | |
| | | | 8 | Reserved | | BOOLEAN | | | |
| | | | 9 | Reserved | | BOOLEAN | | | |
| | | | 10 | Reserved | | BOOLEAN | | | |
| | | | 11 | Reserved | | BOOLEAN | | | |
| | | | 12 | Reserved | | BOOLEAN | | | |
| | | | 13 | Reserved | | BOOLEAN | | | |
| | | | 14 | Reserved | | BOOLEAN | | | |
| | | | 15 | Reserved | | BOOLEAN | | | |
| 40004 | 0x0003 | 3 | | Energy storage | 1 | | | | |
| | | | 0 | Battery breaker BB1 open | | BOOLEAN | | | 1=Battery breaker BB1 is open |
| | | | 1 | Battery breaker BB2 open | | BOOLEAN | | | 1=Battery breaker BB2 is open |
| | | | 2 | Battery breaker BB3 open | | BOOLEAN | | | 1=Battery breaker BB3 is open |
| | | | 3 | Battery breaker BB4 open | | BOOLEAN | | | 1=Battery breaker BB4 is open |
| | | | 4 | Batteries are discharging | | BOOLEAN | | | 1=The load is drawing more power than the UPS can draw from the input, causing the UPS to draw power from the batteries |
| | | | 5 | Charger shutdown due to high battery temperature | | BOOLEAN | | | 1=The charger has been shut down due to a high battery temperature |
| | | | 6 | Battery is below minimum acceptable runtime | | BOOLEAN | | | 1=The battery runtime is below configured minimum acceptable value |
| | | | 7 | Battery voltage does not match battery configuration | | BOOLEAN | | | 1=Battery voltage does not match the battery configuration settings |
| | | | 8 | Battery condition is weak | | BOOLEAN | | | 1=Battery capacity is between 50% and 75% |
| | | | 9 | Battery condition is poor | | BOOLEAN | | | 1=Battery capacity is lower than 50% |
| | | | 10 | High battery temperature level | | BOOLEAN | | | 1=The battery temperature is above the alarm setting |
| | | | 11 | Low battery temperature level | | BOOLEAN | | | 1=The battery temperature is below the alarm setting |
| | | | 12 | Battery capacity is below minimum acceptable level | | BOOLEAN | | | 1=The battery capacity is below the minimum acceptable value according to UPS power rating. Risk of battery damage |
| | | | 13 | Battery charge power is reduced | | BOOLEAN | | | 1=The battery charge power has been reduced |
| | | | 14 | Battery is not working correctly | | BOOLEAN | | | 1=A battery is not working correctly |
| | | | 15 | Battery float charge current exceeds expected value | | BOOLEAN | | | 1=The battery float charge current exceeds the expected value and has been limited to avoid thermal runaway |
| 40005 | 0x0004 | 4 | | Energy storage | 1 | | | | |
| | | | 0 | High battery temperature shutdown | | BOOLEAN | | | 1=The energy storage surveillance has detected a battery temperature above shutdown limit |
| | | | 1 | Battery configuration is incorrect | | BOOLEAN | | | 1=The configuration of the settings for number of batteries in series, number of cells in battery and nominal cell voltage does not match the battery voltage range of the UPS |
| | | | 2 | Mixed battery brands on string level detected | | BOOLEAN | | | 1=The battery modules in the string are not of the same brand |

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|----------------------------------|--|---|-----|---|--------|-----------|----------------------|--------------------|---|
| | | | | | | | Multiply Reading By: | Divide Reading By: | |
| | | | 3 | Mixed battery module capacity detected | | BOOLEAN | | | 1=Mixed battery module capacity detected |
| | | | 4 | Mixed battery module commercial references on system level detected | | BOOLEAN | | | 1=Mixed battery module commercial references on system level detected |
| | | | 5 | Modular battery breaker open | | BOOLEAN | | | 1=Modular battery breaker is open |
| | | | 6 | Incorrect battery monitor controller (BMC) configuration detected | | BOOLEAN | | | 1=Incorrect battery monitor controller (BMC) configuration detected |
| | | | 7 | Modular battery temperature out of tolerance | | BOOLEAN | | | 1=Modular battery temperature is out of tolerance |
| | | | 8 | Modular battery cabinet fuse blown | | BOOLEAN | | | 1=Modular battery cabinet fuse blown |
| | | | 9 | Incomplete battery string detected | | BOOLEAN | | | 1=Incomplete battery string detected |
| | | | 10 | Mixed battery solution detected | | BOOLEAN | | | 1=The UPS is configured for a classic battery solution but one or more battery modules are detected present |
| | | | 11 | Modular battery cabinet commercial reference unknown | | BOOLEAN | | | 1=Modular battery cabinet commercial reference is unknown |
| | | | 12 | Battery module type unknown | | BOOLEAN | | | 1=Battery module type is unknown |
| | | | 13 | Battery module temperature sensor not working correctly | | BOOLEAN | | | 1=Battery module temperature sensor is not working correctly |
| | | | 14 | Battery module temperature out of tolerance | | BOOLEAN | | | 1=Battery module temperature is out of tolerance |
| 40006 | 0x0005 | 5 | 15 | Modular battery DC relay open | | BOOLEAN | | | 1=Modular battery DC relay open |
| | | | | General | 1 | | | | |
| | | | 0 | EPO switch activated | | BOOLEAN | | | 1=An emergency power off (EPO) switch is activated |
| | | | 1 | Synchronization unavailable - system is free running | | BOOLEAN | | | 1=The UPS is unable to synchronize to the bypass input, external source or parallel system |
| | | | 2 | Inverter output is not in phase with bypass input | | BOOLEAN | | | 1=The UPS inverter output is not in phase with the bypass input |
| | | | 3 | UPS operation mode - Battery | | BOOLEAN | | | 1=On battery power in response to an input power unavailability or due to a transfer out of ECOConversion |
| | | | 4 | UPS operation mode - Requested static bypass | | BOOLEAN | | | 1=The UPS is in bypass in response to a user-initiated command, typically for maintenance |
| | | | 5 | UPS operation mode - Forced static bypass | | BOOLEAN | | | 1=The UPS is in forced static bypass |
| | | | 6 | UPS operation mode - Maintenance bypass | | BOOLEAN | | | 1=The UPS load is supplied through maintenance bypass breaker (MBB) |
| | | | 7 | UPS operation mode - Battery test | | BOOLEAN | | | 1=On battery power in response to a test of the performance of the batteries |
| | | | 8 | UPS operation mode - Off | | BOOLEAN | | | 1=The output power is turned off |
| | | | 9 | UPS operation mode - Initialization | | BOOLEAN | | | 1=The UPS is initializing |
| | | | 10 | UPS operation mode - Static bypass standby | | BOOLEAN | | | 1=The UPS is ready to enter static bypass but awaits permission from the system. UPS output is off |
| | | | 11 | UPS operation mode - Inverter standby | | BOOLEAN | | | 1=The UPS is ready to enter battery operation but awaits permission from the system. UPS output is off |
| | | | 12 | System operation mode - Off | | BOOLEAN | | | 1=The system output power is turned off |
| | | | 13 | System operation mode - Forced static bypass | | BOOLEAN | | | 1=The system is in bypass in response to a critical event or an inverter off request |
| | | | 14 | System operation mode - Requested static bypass | | BOOLEAN | | | 1=The UPS is in bypass in response to a user-initiated command, typically for maintenance |
| | | | 15 | System operation mode - Maintenance bypass | | BOOLEAN | | | 1=The system load is supplied through maintenance bypass breaker (MBB) |
| 40007 | 0x0006 | 6 | | General | 1 | | | | |

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|----------------------------------|--|---|-----|--|--------|-----------|----------------------|--------------------|---|
| | | | | | | | Multiply Reading By: | Divide Reading By: | |
| | | | 0 | System operation mode - Static bypass standby | | BOOLEAN | | | 1=The system is in static bypass standby operation in response to a critical event or an inverter off request |
| | | | 1 | Product not registered | | BOOLEAN | | | 1=Your UPS is not registered |
| | | | 2 | Reserved | | BOOLEAN | | | |
| | | | 3 | Reserved | | BOOLEAN | | | |
| | | | 4 | Reserved | | BOOLEAN | | | |
| | | | 5 | Activation code is not valid for UPS | | BOOLEAN | | | 1=The activation code is not valid for UPS |
| | | | 6 | Activation code missing | | BOOLEAN | | | 1=The activation code is missing |
| | | | 7 | RFID tag has changed | | BOOLEAN | | | 1=The RFID tag has changed |
| | | | 8 | Reserved | | BOOLEAN | | | |
| | | | 9 | System locked in bypass operation | | BOOLEAN | | | 1=The system is locked in bypass operation |
| | | | 10 | Unsupported power frame type detected | | BOOLEAN | | | 1=The detected UPS power frame type is not supported by the current UPS power configuration |
| | | | 11 | Unsupported power module type detected | | BOOLEAN | | | 1=The detected power module type is not supported by the current UPS power configuration |
| | | | 12 | Unsupported static bypass switch module type detected | | BOOLEAN | | | 1=The detected static bypass switch module type is not supported by the current UPS power configuration |
| | | | 13 | Incorrect system voltage configuration detected | | BOOLEAN | | | 1=The configured UPS system voltage is not within the allowed range |
| | | | 14 | Configured UPS power rating exceeds frame power rating | | BOOLEAN | | | 1=The configured UPS power rating is larger than the power rating of the frame |
| 40008 | 0x0007 | 7 | 15 | Reserved | | BOOLEAN | | | |
| | | | | General | 1 | | | | |
| | | | 0 | Incorrect 3-wire configuration detected | | BOOLEAN | | | 1=The UPS is not allowed to operate as a 3-wire system at the configured UPS system voltage |
| | | | 1 | No static bypass switch present | | BOOLEAN | | | 1=No static bypass switch detected present |
| | | | 2 | No power module(s) present | | BOOLEAN | | | 1=No power module(s) detected present |
| | | | 3 | Available UPS power lower than configured UPS power rating | | BOOLEAN | | | 1=The available UPS power from inverter is lower than the configured UPS power rating |
| | | | 4 | Static bypass switch power rating lower than configured UPS power rating | | BOOLEAN | | | 1=The static bypass switch power rating is lower than the configured UPS power rating. UPS power rating has been derated to match static bypass switch power rating |
| | | | 5 | Ambient temperature out of tolerance | | BOOLEAN | | | 1=The ambient temperature out of tolerance |
| | | | 6 | Ambient temperature high | | BOOLEAN | | | 1=Ambient temperature is high |
| | | | 7 | Inverter is off due to a request by the user | | BOOLEAN | | | 1=The inverter is off due to a request by the user |
| | | | 8 | Settings file not accepted | | BOOLEAN | | | 1=The settings file is not valid or not intended for this UPS |
| | | | 9 | Warranty expiring soon | | BOOLEAN | | | 1=The product is reaching the end of warranty |
| | | | 10 | Technical check recommended | | BOOLEAN | | | 1=The product and its batteries need to be checked as preventive maintenance is recommended |
| | | | 11 | Air filter technical check recommended | | BOOLEAN | | | 1=The air filters need to be checked as preventive maintenance is recommended |
| | | | 12 | Controller box disabled | | BOOLEAN | | | 1=Controller box has been disabled by user |
| | | | 13 | UPS surveillance detected fault | | BOOLEAN | | | 1=UPS surveillance detected a fault |
| | | | 14 | Display communication lost - display is disconnected from the system | | BOOLEAN | | | 1=Communication link between display and SLC is lost. Display is disconnected from the system |

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|----------------------------------|--|---|-----|---|--------|-----------|----------------------|--------------------|--|
| | | | | | | | Multiply Reading By: | Divide Reading By: | |
| | | | 15 | Display communication lost but the display is connected to the system | | BOOLEAN | | | 1=Communication link between display and SLC is lost but the display is connected to the system |
| 40009 | 0x0008 | 8 | | General | 1 | | | | |
| | | | 0 | Display communication not authenticated | | BOOLEAN | | | 1=Communication link between display and SLC is not authenticated |
| | | | 1 | Multiple NTP server connections enabled | | BOOLEAN | | | 1=Multiple NTP server connections are enabled |
| | | | 2 | Reserved | | BOOLEAN | | | |
| | | | 3 | Reserved | | BOOLEAN | | | |
| | | | 4 | Incorrect UPS model number detected | | BOOLEAN | | | 1=The UPS model number does not match the UPS base model number |
| | | | 5 | Incorrect UPS base model number detected | | BOOLEAN | | | 1=The UPS base model number does not match the installed frame type, power module type, and/or SBS type |
| | | | 6 | Reserved | | BOOLEAN | | | |
| | | | 7 | Internal power module redundancy lost | | BOOLEAN | | | 1=The configured internal power module redundancy is lost because there are not enough power modules available |
| | | | 8 | UPS output load is too low to allow ECOConversion | | BOOLEAN | | | 1=UPS output load is too low to allow ECOConversion |
| | | | 9 | Available UPS power higher than configured UPS power rating | | BOOLEAN | | | 1=The available power from the inverter is higher than the configured UPS power rating |
| | | | 10 | Incompatible power module type detected | | BOOLEAN | | | 1=The detected power module type is incompatible |
| | | | 11 | Reserved | | BOOLEAN | | | |
| | | | 12 | Reserved | | BOOLEAN | | | |
| | | | 13 | Reserved | | BOOLEAN | | | |
| | | | 14 | Reserved | | BOOLEAN | | | |
| | | | 15 | Reserved | | BOOLEAN | | | |
| 40010 | 0x0009 | 9 | | RESERVED | 1 | | | | |
| 40011 | 0x000A | 10 | | RESERVED | 1 | | | | |
| 40012 | 0x000B | 11 | | Input | 1 | | | | |
| | | | 0 | Input voltage out of tolerance | | BOOLEAN | | | 1=Input voltage is out of tolerance |
| | | | 1 | Input phase sequence incorrect | | BOOLEAN | | | 1=The phase rotation on input is incorrect |
| | | | 2 | Input frequency out of tolerance | | BOOLEAN | | | 1=Input frequency is out of tolerance |
| | | | 3 | Input phase missing | | BOOLEAN | | | 1=Input is missing a phase |
| | | | 4 | Reserved | | BOOLEAN | | | |
| | | | 5 | Reserved | | BOOLEAN | | | |
| | | | 6 | Reserved | | BOOLEAN | | | |
| | | | 7 | Reserved | | BOOLEAN | | | |
| | | | 8 | Reserved | | BOOLEAN | | | |
| | | | 9 | Neutral displacement detected | | BOOLEAN | | | 1=Neutral displacement detected |
| | | | 10 | Bonding between neutral and ground missing | | BOOLEAN | | | 1=Bonding between neutral and ground is missing |
| | | | 11 | Reserved | | BOOLEAN | | | |
| | | | 12 | Reserved | | BOOLEAN | | | |
| | | | 13 | Reserved | | BOOLEAN | | | |
| | | | 14 | Reserved | | BOOLEAN | | | |
| | | | 15 | Reserved | | BOOLEAN | | | |
| 40013 | 0x000C | 12 | | Output | 1 | | | | |
| | | | 0 | Output voltage out of tolerance | | BOOLEAN | | | 1=The output voltage is out of tolerance |
| | | | 1 | Output frequency out of tolerance | | BOOLEAN | | | 1=The output frequency is out of tolerance |

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|----------------------------------|--|---|-----|---|--------|-----------|----------------------|--------------------|--|
| | | | | | | | Multiply Reading By: | Divide Reading By: | |
| | | | 2 | Overload or short-circuit on UPS | | BOOLEAN | | | 1=The load exceeds 100% of rated capacity or there is a short-circuit on the output |
| | | | 3 | Overload on UPS due to high ambient temperature | | BOOLEAN | | | 1=The load exceeds the rated UPS capacity when running in high ambient temperature |
| | | | 4 | Overload on installation | | BOOLEAN | | | 1=The load exceeds the rated installation capacity |
| | | | 5 | Load on UPS is above warning level | | BOOLEAN | | | 1=Load on UPS has exceeded the warning level |
| | | | 6 | Reserved | | BOOLEAN | | | |
| | | | 7 | Reserved | | BOOLEAN | | | |
| | | | 8 | Reserved | | BOOLEAN | | | |
| | | | 9 | Reserved | | BOOLEAN | | | |
| | | | 10 | Reserved | | BOOLEAN | | | |
| | | | 11 | Reserved | | BOOLEAN | | | |
| | | | 12 | Reserved | | BOOLEAN | | | |
| | | | 13 | Reserved | | BOOLEAN | | | |
| | | | 14 | Reserved | | BOOLEAN | | | |
| | | | 15 | Reserved | | BOOLEAN | | | |
| 40014 | 0x000D | 13 | | Parallel system | 1 | | | | |
| | | | 0 | Parallel communication lost on PBUS cable 1 | | BOOLEAN | | | 1=PBUS cable 1 may be damaged |
| | | | 1 | Parallel communication lost on PBUS cable 2 | | BOOLEAN | | | 1=PBUS cable 2 may be damaged |
| | | | 2 | General parallel system event | | BOOLEAN | | | 1=The parallel system is not configured correctly or is not working correctly |
| | | | 3 | Parallel mixed operation mode | | BOOLEAN | | | 1=One or more parallel UPSs are operating in battery operation, while others are operating in normal operation |
| | | | 4 | Parallel unit not present | | BOOLEAN | | | 1=UPS is unable to communicate with one of the parallel UPSs. The UPS might have been powered down or PBUS cables may be damaged |
| | | | 5 | Parallel redundancy lost | | BOOLEAN | | | 1=The configured parallel redundancy is lost, either because the output load is too high, or because there are not enough parallel UPSs available. |
| | | | 6 | Not enough UPSs ready to turn on inverter | | BOOLEAN | | | 1=One or more parallel UPSs have been requested to turn on inverter, but not enough UPSs are ready for system to enter inverter on operation |
| | | | 7 | Firmware versions in parallel UPSs are not identical | | BOOLEAN | | | 1=The firmware versions in parallel UPSs are not identical |
| | | | 8 | Confirm redundancy lost and/or transfer to forced static bypass | | BOOLEAN | | | 1=Inverter OFF button has been pushed and user must confirm that the redundancy will be lost and/or system will transfer to forced static bypass |
| | | | 9 | IMB closed in parallel system with MBB | | BOOLEAN | | | 1=IMB has been closed in parallel system with MBB |
| | | | 10 | Reserved | | BOOLEAN | | | |
| | | | 11 | Reserved | | BOOLEAN | | | |
| | | | 12 | Reserved | | BOOLEAN | | | |
| | | | 13 | Reserved | | BOOLEAN | | | |
| | | | 14 | Reserved | | BOOLEAN | | | |
| | | | 15 | Reserved | | BOOLEAN | | | |
| 40015 | 0x000E | 14 | | Power module | 1 | | | | |
| | | | 0 | Power module inoperable | | BOOLEAN | | | 1=Power module is inoperable |
| | | | 1 | Power module temperature warning | | BOOLEAN | | | 1=Power module temperature exceeds warning level |

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|----------------------------------|--|---|-----|---|--------|-----------|----------------------|--------------------|---|
| | | | | | | | Multiply Reading By: | Divide Reading By: | |
| | | | 2 | Power module overheated | | BOOLEAN | | | 1=Power module temperature exceeds critical level |
| | | | 3 | Power module inlet temperature high | | BOOLEAN | | | 1=The power module inlet temperature is high |
| | | | 4 | Power module inlet temperature out of tolerance | | BOOLEAN | | | 1=The power module inlet temperature is out of tolerance |
| | | | 5 | Reserved | | BOOLEAN | | | |
| | | | 6 | Reserved | | BOOLEAN | | | |
| | | | 7 | Power module fan inoperable | | BOOLEAN | | | 1=The power module has one or more inoperable fans. Fan redundancy is lost |
| | | | 8 | Power module disabled | | BOOLEAN | | | 1=The power module has been disabled |
| | | | 9 | Power module surveillance detected fault | | BOOLEAN | | | 1=Power module surveillance detected a fault |
| | | | 10 | PMC communication lost - disconnected | | BOOLEAN | | | 1=Communication link between PMC and UC is lost. PMC is disconnected |
| | | | 11 | PMC communication lost - connected | | BOOLEAN | | | 1=Communication link between PMC and UC is lost. PMC is connected |
| | | | 12 | PMC communication not authenticated | | BOOLEAN | | | 1=Communication link between PMC and UC is not authenticated |
| | | | 13 | Reserved | | BOOLEAN | | | |
| | | | 14 | Reserved | | BOOLEAN | | | |
| | | | 15 | Reserved | | BOOLEAN | | | |
| 40016 | 0x000F | 15 | | RESERVED | 1 | | | | |
| 40017 | 0x0010 | 16 | | Static bypass switch | 1 | | | | |
| | | | 0 | Static bypass switch fan inoperable | | BOOLEAN | | | 1=Static bypass switch has one or more inoperable fans. Fan redundancy is lost |
| | | | 1 | Overload on static bypass switch | | BOOLEAN | | | 1=The load on the static bypass switch exceeds 100% |
| | | | 2 | Static bypass switch warning | | BOOLEAN | | | 1=The static bypass switch needs a technical check but is still fully operational |
| | | | 3 | Static bypass switch inoperable | | BOOLEAN | | | 1=Static bypass switch is inoperable. UPS is prevented from going into static bypass operation |
| | | | 4 | Static bypass switch controller communication lost - disconnected | | BOOLEAN | | | 1=Communication link between static bypass switch controller and unit controller is lost. Static bypass switch controller is disconnected |
| | | | 5 | Static bypass switch controller communication lost - connected | | BOOLEAN | | | 1=Communication link between static bypass switch controller and unit controller is lost. Static bypass switch controller is connected |
| | | | 6 | Static bypass switch controller communication not authenticated | | BOOLEAN | | | 1=Communication link between static bypass switch controller and unit controller is not authenticated |
| | | | 7 | Static bypass switch module disabled | | BOOLEAN | | | 1=The static bypass switch module has been disabled by user |
| | | | 8 | Reserved | | BOOLEAN | | | |
| | | | 9 | Reserved | | BOOLEAN | | | |
| | | | 10 | Reserved | | BOOLEAN | | | |
| | | | 11 | Reserved | | BOOLEAN | | | |
| | | | 12 | Reserved | | BOOLEAN | | | |
| | | | 13 | Reserved | | BOOLEAN | | | |
| | | | 14 | Reserved | | BOOLEAN | | | |
| | | | 15 | Reserved | | BOOLEAN | | | |
| 40018 | 0x0011 | 17 | | Switchgear | 1 | | | | |

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|----------------------------------|--|---|-----|--|--------|-----------|----------------------|--------------------|--|
| | | | | | | | Multiply Reading By: | Divide Reading By: | |
| | | | 0 | Breaker UIB open | | BOOLEAN | | | 1=Unit input breaker UIB is open, and the UPS is prevented from running in normal operation |
| | | | 1 | Breaker UOB open | | BOOLEAN | | | 1=Unit output breaker UOB is open, and the UPS is prevented from supplying the load |
| | | | 2 | Breaker MBB closed | | BOOLEAN | | | 1=Maintenance bypass breaker MBB is closed, supplying the load with unprotected power from bypass |
| | | | 3 | Breaker SIB open | | BOOLEAN | | | 1=System isolation breaker SIB is open, and system cannot supply the load |
| | | | 4 | Breaker SSIB open | | BOOLEAN | | | 1=Static switch input breaker SSIB is open, preventing static bypass operation |
| | | | 5 | Breaker IMB closed | | BOOLEAN | | | 1=Internal maintenance bypass breaker IMB is closed, supplying the load with unprotected power from bypass |
| | | | 6 | Breaker RIMB closed | | BOOLEAN | | | 1=Remote internal maintenance bypass breaker RIMB is closed, supplying the load with unprotected power from bypass |
| | | | 7 | Reserved | | BOOLEAN | | | |
| | | | 8 | Reserved | | BOOLEAN | | | |
| | | | 9 | Ground fault detected | | BOOLEAN | | | 1=Dry contact input indicates that a ground wire fault has been detected |
| | | | 10 | Genset is supplying the UPS | | BOOLEAN | | | 1=Dry contact input indicates that a genset is supplying the UPS |
| | | | 11 | Battery room ventilation inoperable | | BOOLEAN | | | 1=Dry contact input indicates that the battery room ventilation is not working correctly |
| | | | 12 | External battery monitoring detected fault | | BOOLEAN | | | 1=Dry contact input indicates external battery monitoring detected fault |
| | | | 13 | UOB redundant monitoring not working correctly | | BOOLEAN | | | 1=The two redundant AUX contacts of UOB do not report the same status |
| | | | 14 | MBB redundant monitoring not working correctly | | BOOLEAN | | | 1=The two redundant AUX contacts of MBB do not report the same status |
| | | | 15 | IMB redundant monitoring not working correctly | | BOOLEAN | | | 1=The two redundant AUX contacts of IMB do not report the same status |
| 40019 | 0x0012 | 18 | | Switchgear | 1 | | | | |
| | | | 0 | RIMB redundant monitoring not working correctly | | BOOLEAN | | | 1=The two redundant AUX contacts of RIMB do not report the same status |
| | | | 1 | UPS locked in static bypass mode: activated | | BOOLEAN | | | 1=Dry contact input for UPS locked in static bypass mode is activated |
| | | | 2 | High efficiency mode disabled | | BOOLEAN | | | 1=High efficiency mode is disabled from a dry contact input |
| | | | 3 | External energy storage monitoring: minor alarm | | BOOLEAN | | | 1=Dry contact input indicates external energy storage monitoring has detected a minor fault |
| | | | 4 | External energy storage monitoring: major alarm | | BOOLEAN | | | 1=Dry contact input indicates external energy storage monitoring has detected a major fault |
| | | | 5 | External charger off command: activated | | BOOLEAN | | | 1=Dry contact input for charger off is activated |
| | | | 6 | Temperature of input and/or output transformer is too high | | BOOLEAN | | | 1=Temperature of input and/or output transformer is too high |
| | | | 7 | Reserved | | BOOLEAN | | | |

| Modicon Standard Register Number | Absolute Starting Register Address, (Hexa-decimal) | Absolute Starting Register Address, (Decimal) | Bit | Data Point | Length | Data Type | Scale | | Valid Response |
|----------------------------------|--|---|-----|--|--------|-----------|----------------------|--------------------|---|
| | | | | | | | Multiply Reading By: | Divide Reading By: | |
| | | | 8 | Reserved | | BOOLEAN | | | |
| | | | 9 | Reserved | | BOOLEAN | | | |
| | | | 10 | Reserved | | BOOLEAN | | | |
| | | | 11 | Reserved | | BOOLEAN | | | |
| | | | 12 | Reserved | | BOOLEAN | | | |
| | | | 13 | Reserved | | BOOLEAN | | | |
| | | | 14 | Reserved | | BOOLEAN | | | |
| | | | 15 | Reserved | | BOOLEAN | | | |
| 40020 | 0x0013 | 19 | | System level controller (SLC) | 1 | | | | |
| | | | 0 | SLC in controller box is not working correctly | | BOOLEAN | | | 1=The SLC in the controller box is not working correctly |
| | | | 1 | Reserved | | BOOLEAN | | | |
| | | | 2 | Reserved | | BOOLEAN | | | |
| | | | 3 | Reserved | | BOOLEAN | | | |
| | | | 4 | Reserved | | BOOLEAN | | | |
| | | | 5 | Reserved | | BOOLEAN | | | |
| | | | 6 | Reserved | | BOOLEAN | | | |
| | | | 7 | Reserved | | BOOLEAN | | | |
| | | | 8 | Reserved | | BOOLEAN | | | |
| | | | 9 | Reserved | | BOOLEAN | | | |
| | | | 10 | Reserved | | BOOLEAN | | | |
| | | | 11 | Reserved | | BOOLEAN | | | |
| | | | 12 | Reserved | | BOOLEAN | | | |
| | | | 13 | Reserved | | BOOLEAN | | | |
| | | | 14 | Reserved | | BOOLEAN | | | |
| | | | 15 | Reserved | | BOOLEAN | | | |
| 40021 | 0x0014 | 20 | | Unit controller (UC) | 1 | | | | |
| | | | 0 | Reserved | | BOOLEAN | | | |
| | | | 1 | Reserved | | BOOLEAN | | | |
| | | | 2 | Reserved | | BOOLEAN | | | |
| | | | 3 | Reserved | | BOOLEAN | | | |
| | | | 4 | Reserved | | BOOLEAN | | | |
| | | | 5 | Reserved | | BOOLEAN | | | |
| | | | 6 | Reserved | | BOOLEAN | | | |
| | | | 7 | Reserved | | BOOLEAN | | | |
| | | | 8 | UC in controller box is not working correctly | | BOOLEAN | | | 1=The UC in the controller box is not working correctly |
| | | | 9 | UC communication lost - disconnected | | BOOLEAN | | | 1=Communication link between UC and SLC is lost. UC is disconnected |
| | | | 10 | UC communication lost - connected | | BOOLEAN | | | 1=Communication link between UC and SLC is lost. UC is connected |
| | | | 11 | UC communication not authenticated | | BOOLEAN | | | 1=Communication link between UC and SLC is not authenticated |
| | | | 12 | Reserved | | BOOLEAN | | | |
| | | | 13 | Reserved | | BOOLEAN | | | |
| | | | 14 | Reserved | | BOOLEAN | | | |
| | | | 15 | Reserved | | BOOLEAN | | | |
| 40022 | 0x0015 | 21 | | Battery Charger | 1 | | | | |

| Modicon Standard Register Number | Absolute Starting Register Address, (Hexa-decimal) | Absolute Starting Register Address, (Decimal) | Bit | Data Point | Length | Data Type | Scale | | Valid Response |
|----------------------------------|--|---|-----|--|--------|-----------|----------------------|--------------------|---|
| | | | | | | | Multiply Reading By: | Divide Reading By: | |
| | | | 0 | BMC communication lost - disconnected | | BOOLEAN | | | 1=Communication link between BMC and SLC is lost. BMC is disconnected |
| | | | 1 | BMC communication lost - connected | | BOOLEAN | | | 1=Communication link between BMC and SLC is lost. BMC is connected |
| | | | 2 | BMC communication not authenticated | | BOOLEAN | | | 1=Communication link between BMC and SLC is not authenticated |
| | | | 3 | Reserved | | BOOLEAN | | | |
| | | | 4 | Reserved | | BOOLEAN | | | |
| | | | 5 | Reserved | | BOOLEAN | | | |
| | | | 6 | Reserved | | BOOLEAN | | | |
| | | | 7 | Reserved | | BOOLEAN | | | |
| | | | 8 | Reserved | | BOOLEAN | | | |
| | | | 9 | Reserved | | BOOLEAN | | | |
| | | | 10 | Reserved | | BOOLEAN | | | |
| | | | 11 | Reserved | | BOOLEAN | | | |
| | | | 12 | Reserved | | BOOLEAN | | | |
| | | | 13 | Reserved | | BOOLEAN | | | |
| | | | 14 | Reserved | | BOOLEAN | | | |
| | | | 15 | Reserved | | BOOLEAN | | | |
| 40023 | 0x0016 | 22 | | Energy Storage | 1 | | | | |
| | | | 0 | Common battery settings not identical | | BOOLEAN | | | 1=The settings used for common battery are not identical on all parallel UPSs |
| | | | 1 | Modular battery string temperature out of tolerance | | BOOLEAN | | | 1=Modular battery string temperature is out of tolerance |
| | | | 2 | Shutdown due to high battery discharge current | | BOOLEAN | | | 1=The energy storage surveillance has detected a battery discharge current above the shutdown limit |
| | | | 3 | Reserved | | BOOLEAN | | | |
| | | | 4 | Reserved | | BOOLEAN | | | |
| | | | 5 | Reserved | | BOOLEAN | | | |
| | | | 6 | Reserved | | BOOLEAN | | | |
| | | | 7 | Reserved | | BOOLEAN | | | |
| | | | 8 | Reserved | | BOOLEAN | | | |
| | | | 9 | Reserved | | BOOLEAN | | | |
| | | | 10 | Reserved | | BOOLEAN | | | |
| | | | 11 | Reserved | | BOOLEAN | | | |
| | | | 12 | Reserved | | BOOLEAN | | | |
| | | | 13 | Reserved | | BOOLEAN | | | |
| | | | 14 | Reserved | | BOOLEAN | | | |
| | | | 15 | Reserved | | BOOLEAN | | | |
| 40024 | 0x0017 | 23 | | Network | 1 | BOOLEAN | | | |
| | | | 0 | Low temperature threshold violation at remote sensor | | BOOLEAN | | | 1=A low temperature threshold violation exists for integrated environmental monitor sensor |
| | | | 1 | Minimum temperature threshols violation at remote sensor | | BOOLEAN | | | 1=A minimum temperature threshold violation exists for integrated environmental monitor sensor |
| | | | 2 | High temperature threshold violation at remote sensor | | BOOLEAN | | | 1=A high temperature threshold violation exists for integrated environmental monitor sensor |
| | | | 3 | Maximum temperature threshold violation at remote sensor | | BOOLEAN | | | 1=A maximum temperature threshold violation exists for integrated environmental monitor sensor |

| Modicon Standard Register Number | Absolute Starting Register Address, (Hexa-decimal) | Absolute Starting Register Address, (Decimal) | Bit | Data Point | Length | Data Type | Scale | | Valid Response |
|----------------------------------|--|---|-----|---|--------|-----------|----------------------|--------------------|---|
| | | | | | | | Multiply Reading By: | Divide Reading By: | |
| | | | 4 | Low humidity threshold violation at remote sensor | | BOOLEAN | | | 1=A low humidity threshold violation exists for integrated environmental monitor sensor |
| | | | 5 | Minimum humidity threshold violation at remote sensor | | BOOLEAN | | | 1=A minimum humidity threshold violation exists for integrated environmental monitor sensor |
| | | | 6 | High humidity threshold violation at remote sensor | | BOOLEAN | | | 1=A high humidity threshold violation exists for integrated environmental monitor sensor |
| | | | 7 | Maximum humidity threshold violation at remote sensor | | BOOLEAN | | | 1=A maximum humidity threshold violation exists for integrated environmental monitor sensor |
| | | | 8 | Lost communication to remote sensor | | BOOLEAN | | | 1=Lost the local network management interface-to-integrated environmental monitor communication |
| | | | 9 | Communication link between NMC and SLC is lost. NMC is disconnected from the system | | BOOLEAN | | | 1=Communication link between NMC and SLC is lost. NMC is disconnected from the system |
| | | | 10 | Communication link between NMC and SLC is lost but the NMC is connected to the system | | BOOLEAN | | | 1=Communication link between NMC and SLC is lost. NMC is connected to the system |
| | | | 11 | Communication link between NMC and SLC is not authenticated | | BOOLEAN | | | 1=Communication link between NMC and SLC is not authenticated |
| | | | 12 | Reserved | | BOOLEAN | | | |
| | | | 13 | Reserved | | BOOLEAN | | | |
| | | | 14 | Reserved | | BOOLEAN | | | |
| | | | 15 | Reserved | | BOOLEAN | | | |
| Static Data | | | | | | | | | |
| 44097 | 0x1000 | 4096 | | The firmware package version number of the UPS system | 8 | ASCII | | | |
| 44105 | 0x1008 | 4104 | | The hardware version number of the UPS system | 16 | ASCII | | | |
| 44121 | 0x1018 | 4120 | | The UPS model number (commercial reference) | 16 | ASCII | | | |
| 44137 | 0x1028 | 4136 | | The UPS serial number | 16 | ASCII | | | |
| 44153 | 0x1038 | 4152 | | The network management card firmware version number | 8 | ASCII | | | |
| 44161 | 0x1040 | 4160 | | The network management card hardware version number | 16 | ASCII | | | |
| 44177 | 0x1050 | 4176 | | The model number (commercial reference) of the network management card | 16 | ASCII | | | |
| 44193 | 0x1060 | 4192 | | The network management card serial number | 16 | ASCII | | | |
| 44209 | 0x1070 | 4208 | | Time since battery statistics timer reset (in minutes). | 2 | UINT32 | | | |
| 44211 | 0x1072 | 4210 | | Total time for UPS in battery operation since battery statistics timer reset (in minutes). | 2 | UINT32 | | | |
| 44213 | 0x1074 | 4212 | | Time since operational statistics timer reset (in minutes). | 2 | UINT32 | | | |
| 44215 | 0x1076 | 4214 | | Total time for UPS in normal operation since operational statistics timer reset (in minutes). | 2 | UINT32 | | | |
| 44217 | 0x1078 | 4216 | | Total time for UPS in bypass operation since operational statistics timer reset (in minutes). | 2 | UINT32 | | | |
| 44219 | 0x107A | 4218 | | Total time for UPS in ECO mode since operational statistics timer reset (in minutes). | 2 | UINT32 | | | min |
| 44223 | 0x107E | 4222 | | Time since input energy counter timer reset (in minutes) | 2 | UINT32 | | | min |

| Modicon Standard Register Number | Absolute Starting Register Address, (Hexa-decimal) | Absolute Starting Register Address, (Decimal) | Bit | Data Point | Length | Data Type | Scale | | Valid Response |
|----------------------------------|--|---|-----|---|--------|-----------|----------------------|--------------------|-------------------------------|
| | | | | | | | Multiply Reading By: | Divide Reading By: | |
| 44225 | 0x1080 | 4224 | | Time since output energy counter timer reset (in minutes) | 2 | UINT32 | | | min |
| Dynamic Data | | | | | | | | | |
| 44609 | 0x1200 | 4608 | | Alarm status of the unit | 1 | | | | |
| | | | | No alarms present | | ENUM | | | 0=No alarms present |
| | | | | Informational alarm present | | ENUM | | | 1=Informational alarm present |
| | | | | Warning alarm present | | ENUM | | | 2=Warning alarm present |
| | | | | Critical alarm present | | ENUM | | | 3=Critical alarm present |
| 44865 | 0x1300 | 4864 | | The present apparent output power for each phase in kVA. Apparent power is the product of RMS (root mean square) volts and RMS amperes (phase1) | 1 | UINT16 | 0.1 | 10 | kVA |
| 44866 | 0x1301 | 4865 | | The present apparent output power for each phase in kVA. Apparent power is the product of RMS (root mean square) volts and RMS amperes (phase2) | 1 | UINT16 | 0.1 | 10 | kVA |
| 44867 | 0x1302 | 4866 | | The present apparent output power for each phase in kVA. Apparent power is the product of RMS (root mean square) volts and RMS amperes (phase3) | 1 | UINT16 | 0.1 | 10 | kVA |
| 44868 | 0x1303 | 4867 | | The present output current for each phase in A (phase1) | 1 | UINT16 | 0.01 | 100 | A |
| 44869 | 0x1304 | 4868 | | The present output current for each phase in A (phase2) | 1 | UINT16 | 0.01 | 100 | A |
| 44870 | 0x1305 | 4869 | | The present output current for each phase in A (phase3) | 1 | UINT16 | 0.01 | 100 | A |
| 44871 | 0x1306 | 4870 | | The present output crest factor for each phase. The output crest factor is the ratio of the peak value of the output current to the RMS (root mean square) value (phase1) | 1 | UINT16 | 0.1 | 10 | |
| 44872 | 0x1307 | 4871 | | The present output crest factor for each phase. The output crest factor is the ratio of the peak value of the output current to the RMS (root mean square) value (phase2) | 1 | UINT16 | 0.1 | 10 | |
| 44873 | 0x1308 | 4872 | | The present output crest factor for each phase. The output crest factor is the ratio of the peak value of the output current to the RMS (root mean square) value (phase3) | 1 | UINT16 | 0.1 | 10 | |
| 44874 | 0x1309 | 4873 | | The THD (total harmonic distortion) for each phase, as a percentage, for the present output current (phase1) | 1 | UINT16 | 0.1 | 10 | % |
| 44875 | 0x130A | 4874 | | The THD (total harmonic distortion) for each phase, as a percentage, for the present output current (phase2) | 1 | UINT16 | 0.1 | 10 | % |

| Modicon Standard Register Number | Absolute Starting Register Address, (Hexa-decimal) | Absolute Starting Register Address, (Decimal) | Bit | Data Point | Length | Data Type | Scale | | Valid Response |
|----------------------------------|--|---|-----|--|--------|-----------|----------------------|--------------------|----------------|
| | | | | | | | Multiply Reading By: | Divide Reading By: | |
| 44876 | 0x130B | 4875 | | The THD (total harmonic distortion) for each phase, as a percentage, for the present output current (phase3) | 1 | UINT16 | 0.1 | 10 | % |
| 44877 | 0x130C | 4876 | | The present output power factor for each phase. Power factor is the ratio of active power to apparent power (phase1) | 1 | UINT16 | 0.01 | 100 | |
| 44878 | 0x130D | 4877 | | The present output power factor for each phase. Power factor is the ratio of active power to apparent power (phase2) | 1 | UINT16 | 0.01 | 100 | |
| 44879 | 0x130E | 4878 | | The present output power factor for each phase. Power factor is the ratio of active power to apparent power (phase3) | 1 | UINT16 | 0.01 | 100 | |
| 44880 | 0x130F | 4879 | | The present active (or real) output power for each phase in kW. Active power is the portion of power flow that, averaged over a complete cycle of the AC waveform, results in net transfer of energy in one direction (phase1) | 1 | UINT16 | 0.1 | 10 | kW |
| 44881 | 0x1310 | 4880 | | The present active (or real) output power for each phase in kW. Active power is the portion of power flow that, averaged over a complete cycle of the AC waveform, results in net transfer of energy in one direction (phase2) | 1 | UINT16 | 0.1 | 10 | kW |
| 44882 | 0x1311 | 4881 | | The present active (or real) output power for each phase in kW. Active power is the portion of power flow that, averaged over a complete cycle of the AC waveform, results in net transfer of energy in one direction (phase3) | 1 | UINT16 | 0.1 | 10 | kW |
| 44883 | 0x1312 | 4882 | | The present output voltage for each phase (phase1) | 1 | UINT16 | 0.1 | 10 | V |
| 44884 | 0x1313 | 4883 | | The present output voltage for each phase (phase2) | 1 | UINT16 | 0.1 | 10 | V |
| 44885 | 0x1314 | 4884 | | The present output voltage for each phase (phase3) | 1 | UINT16 | 0.1 | 10 | V |
| 44886 | 0x1315 | 4885 | | The present phase-to-phase output RMS voltage (phase1) | 1 | UINT16 | 0.01 | 100 | V |
| 44887 | 0x1316 | 4886 | | The present phase-to-phase output RMS voltage (phase2) | 1 | UINT16 | 0.01 | 100 | V |
| 44888 | 0x1317 | 4887 | | The present phase-to-phase output RMS voltage (phase3) | 1 | UINT16 | 0.01 | 100 | V |
| 44889 | 0x1318 | 4888 | | The present total apparent output power in kVA. Apparent power is the product of RMS (root mean square) volts and RMS amperes | 1 | UINT16 | 0.1 | 10 | kVA |

| Modicon Standard Register Number | Absolute Starting Register Address, (Hexa-decimal) | Absolute Starting Register Address, (Decimal) | Bit | Data Point | Length | Data Type | Scale | | Valid Response |
|----------------------------------|--|---|-----|---|--------|-----------|----------------------|--------------------|----------------|
| | | | | | | | Multiply Reading By: | Divide Reading By: | |
| 44890 | 0x1319 | 4889 | | Output current as percentage of total available current (highest phase) | 1 | UINT16 | 0.1 | 10 | % |
| 44891 | 0x131A | 4890 | | The present output frequency in Hz | 1 | UINT16 | 0.1 | 10 | Hz |
| 44892 | 0x131B | 4891 | | The present total active (or real) output power (for all three phases) in kW | 1 | UINT16 | 0.01 | 100 | kW |
| 44893 | 0x131C | 4892 | | The total energy supplied since the time of installation or since the counter was reset | 2 | UINT32 | 0.1 | 10 | kWh |
| 44895 | 0x131E | 4894 | | The present output neutral current in A | 1 | UINT16 | 0.1 | 10 | A |
| 45121 | 0x1400 | 5120 | | The present apparent input power for each phase in kVA. Apparent power is the product of RMS (root mean square) volts and RMS amperes (phase1) | 1 | UINT16 | 0.1 | 10 | kVA |
| 45122 | 0x1401 | 5121 | | The present apparent input power for each phase in kVA. Apparent power is the product of RMS (root mean square) volts and RMS amperes (phase2) | 1 | UINT16 | 0.1 | 10 | kVA |
| 45123 | 0x1402 | 5122 | | The present apparent input power for each phase in kVA. Apparent power is the product of RMS (root mean square) volts and RMS amperes (phase3) | 1 | UINT16 | 0.1 | 10 | kVA |
| 45124 | 0x1403 | 5123 | | The present input current for each phase in A (phase1) | 1 | UINT16 | 0.01 | 100 | A |
| 45125 | 0x1404 | 5124 | | The present input current for each phase in A (phase2) | 1 | UINT16 | 0.01 | 100 | A |
| 45126 | 0x1405 | 5125 | | The present input current for each phase in A (phase3) | 1 | UINT16 | 0.01 | 100 | A |
| 45127 | 0x1406 | 5126 | | The ratio of the active power to the apparent power (phase1) | 1 | UINT16 | 0.01 | 100 | |
| 45128 | 0x1407 | 5127 | | The ratio of the active power to the apparent power (phase2) | 1 | UINT16 | 0.01 | 100 | |
| 45129 | 0x1408 | 5128 | | The ratio of the active power to the apparent power (phase3) | 1 | UINT16 | 0.01 | 100 | |
| 45130 | 0x1409 | 5129 | | The present active (or real) input power for each phase in kW. Active power is the portion of power flow that, averaged over a complete cycle of the AC waveform, results in net transfer of energy in one direction (phase1) | 1 | UINT16 | 0.1 | 10 | kW |
| 45131 | 0x140A | 5130 | | The present active (or real) input power for each phase in kW. Active power is the portion of power flow that, averaged over a complete cycle of the AC waveform, results in net transfer of energy in one direction (phase2) | 1 | UINT16 | 0.1 | 10 | kW |

| Modicon Standard Register Number | Absolute Starting Register Address, (Hexa-decimal) | Absolute Starting Register Address, (Decimal) | Bit | Data Point | Length | Data Type | Scale | | Valid Response |
|----------------------------------|--|---|-----|---|--------|-----------|----------------------|--------------------|----------------|
| | | | | | | | Multiply Reading By: | Divide Reading By: | |
| 45132 | 0x140B | 5131 | | The present active (or real) input power for each phase in kW. Active power is the portion of power flow that, averaged over a complete cycle of the AC waveform, results in net transfer of energy in one direction (phase3) | 1 | UINT16 | 0.1 | 10 | kW |
| 45133 | 0x140C | 5132 | | The present input voltage for each phase (phase1) | 1 | UINT16 | 0.1 | 10 | V |
| 45134 | 0x140D | 5133 | | The present input voltage for each phase (phase2) | 1 | UINT16 | 0.1 | 10 | V |
| 45135 | 0x140E | 5134 | | The present input voltage for each phase (phase3) | 1 | UINT16 | 0.1 | 10 | V |
| 45136 | 0x140F | 5135 | | The present phase-to-phase input RMS voltage (phase1) | 1 | UINT16 | 0.01 | 100 | V |
| 45137 | 0x1410 | 5136 | | The present phase-to-phase input RMS voltage (phase2) | 1 | UINT16 | 0.01 | 100 | V |
| 45138 | 0x1411 | 5137 | | The present phase-to-phase input RMS voltage (phase3) | 1 | UINT16 | 0.01 | 100 | V |
| 45139 | 0x1412 | 5138 | | The present total apparent power input (for all three phases) in kVA | 1 | UINT16 | 0.1 | 10 | kVA |
| 45140 | 0x1413 | 5139 | | The present input frequency in Hz | 1 | UINT16 | 0.1 | 10 | Hz |
| 45141 | 0x1414 | 5140 | | The present total real power (or active power) input (for all three phases) in kW | 1 | UINT16 | 0.01 | 100 | kW |
| 45142 | 0x1415 | 5141 | | The total energy consumption since the time of installation or since the counter was reset. | 2 | UINT32 | 0.1 | 10 | kWh |
| | | | | | | | | | |
| 45377 | 0x1500 | 5376 | | The present apparent bypass power for each phase in kVA. Apparent power is the product of RMS (root mean square) volts and RMS amperes (phase1) | 1 | UINT16 | 0.1 | 10 | kVA |
| 45378 | 0x1501 | 5377 | | The present apparent bypass power for each phase in kVA. Apparent power is the product of RMS (root mean square) volts and RMS amperes (phase2) | 1 | UINT16 | 0.1 | 10 | kVA |
| 45379 | 0x1502 | 5378 | | The present apparent bypass power for each phase in kVA. Apparent power is the product of RMS (root mean square) volts and RMS amperes (phase3) | 1 | UINT16 | 0.1 | 10 | kVA |
| 45380 | 0x1503 | 5379 | | The present bypass current for each phase in A (phase1) | 1 | UINT16 | 0.01 | 100 | A |
| 45381 | 0x1504 | 5380 | | The present bypass current for each phase in A (phase2) | 1 | UINT16 | 0.01 | 100 | A |
| 45382 | 0x1505 | 5381 | | The present bypass current for each phase in A (phase3) | 1 | UINT16 | 0.01 | 100 | A |
| 45383 | 0x1506 | 5382 | | The present bypass power factor for each phase. Power factor is the ratio of active power to apparent power (phase1) | 1 | UINT16 | 0.01 | 100 | |

| Modicon Standard Register Number | Absolute Starting Register Address, (Hexa-decimal) | Absolute Starting Register Address, (Decimal) | Bit | Data Point | Length | Data Type | Scale | | Valid Response |
|----------------------------------|--|---|-----|---|--------|-----------|----------------------|--------------------|-------------------------|
| | | | | | | | Multiply Reading By: | Divide Reading By: | |
| 45384 | 0x1507 | 5383 | | The present bypass power factor for each phase. Power factor is the ratio of active power to apparent power (phase2) | 1 | UINT16 | 0.01 | 100 | |
| 45385 | 0x1508 | 5384 | | The present bypass power factor for each phase. Power factor is the ratio of active power to apparent power (phase3) | 1 | UINT16 | 0.01 | 100 | |
| 45386 | 0x1509 | 5385 | | The present active (or real) bypass power for each phase in kW. Active power is the time average of the instantaneous product of voltage and current (phase1) | 1 | UINT16 | 0.1 | 10 | kW |
| 45387 | 0x150A | 5386 | | The present active (or real) bypass power for each phase in kW. Active power is the time average of the instantaneous product of voltage and current (phase2) | 1 | UINT16 | 0.1 | 10 | kW |
| 45388 | 0x150B | 5387 | | The present active (or real) bypass power for each phase in kW. Active power is the time average of the instantaneous product of voltage and current (phase3) | 1 | UINT16 | 0.1 | 10 | kW |
| 45389 | 0x150C | 5388 | | The present bypass voltage for each phase (phase1) | 1 | UINT16 | 0.1 | 10 | V |
| 45390 | 0x150D | 5389 | | The present bypass voltage for each phase (phase2) | 1 | UINT16 | 0.1 | 10 | V |
| 45391 | 0x150E | 5390 | | The present bypass voltage for each phase (phase3) | 1 | UINT16 | 0.1 | 10 | V |
| 45392 | 0x150F | 5391 | | The present phase-to-phase bypass RMS voltage (V). (phase1) | 1 | UINT16 | 0.01 | 100 | V |
| 45393 | 0x1510 | 5392 | | The present phase-to-phase bypass RMS voltage (V). (phase2) | 1 | UINT16 | 0.01 | 100 | V |
| 45394 | 0x1511 | 5393 | | The present phase-to-phase bypass RMS voltage (V). (phase3) | 1 | UINT16 | 0.01 | 100 | V |
| 45395 | 0x1512 | 5394 | | The present total apparent bypass power (for all three phases) in kVA | 1 | UINT16 | 0.1 | 10 | kVA |
| 45396 | 0x1513 | 5395 | | The present bypass frequency in Hz | 1 | UINT16 | 0.1 | 10 | Hz |
| 45397 | 0x1514 | 5396 | | The present total active bypass power (for all three phases) in kW | 1 | UINT16 | 0.01 | 100 | kW |
| | | | | | | | | | |
| 45633 | 0x1600 | 5632 | | The general condition of the charger | 1 | | | | |
| | | | | Float charging | | ENUM | | | 0=Float charging |
| | | | | Boost charging | | ENUM | | | 1=Boost charging |
| | | | | Cyclic resting | | ENUM | | | 2=Cyclic resting |
| | | | | Not charging | | ENUM | | | 3=Not charging |
| | | | | Equalization charging | | ENUM | | | 4=Equalization charging |
| | | | | Test in progress | | ENUM | | | 5=Test in progress |
| | | | | Cyclic float charging | | ENUM | | | 6=Cyclic float charging |
| 45634 | 0x1601 | 5633 | | The highest battery temperature from the connected temperature sensors | 1 | UINT16 | 0.1 | 10 | Celsius |
| 45635 | 0x1602 | 5634 | | The present DC power being drawn from the battery in kW | 1 | UINT16 | 0.1 | 10 | kW |

| Modicon Standard Register Number | Absolute Starting Register Address, (Hexa-decimal) | Absolute Starting Register Address, (Decimal) | Bit | Data Point | Length | Data Type | Scale | | Valid Response |
|----------------------------------|--|---|-----|---|--------|-----------|----------------------|--------------------|--|
| | | | | | | | Multiply Reading By: | Divide Reading By: | |
| 45636 | 0x1603 | 5635 | | Combined status for battery breakers. | 1 | | | | |
| | | | | Open | | ENUM | | | 0=Open |
| | | | | Closed | | ENUM | | | 1=Closed |
| 45637 | 0x1604 | 5636 | | The amount of time before the batteries reach the low-voltage shutdown level | 2 | UINT32 | 1 | 1 | Sec |
| 45639 | 0x1606 | 5638 | | Estimated time for recharging the battery | 2 | UINT32 | 1 | 1 | Sec |
| 45641 | 0x1608 | 5640 | | The present battery charge, as a percentage of full charge capacity | 1 | UINT16 | 1 | 1 | % |
| 45642 | 0x1609 | 5641 | | The present battery voltage (V) | 1 | UINT16 | 0.1 | 10 | V |
| 45643 | 0x160A | 5642 | | The present battery current (A). A positive current indicates that the battery is charging; a negative current indicates that the battery is discharging. | 1 | UINT16 | 0.1 | 10 | A |
| 45644 | 0x160B | 5643 | | Status of battery self-test. Can indicate the battery test status triggered by user-commanded or scheduled self-test | 1 | | | | |
| | | | | Battery self-test is inactive | | ENUM | | | 0=Battery self test is inactive |
| | | | | Battery self-test is running | | ENUM | | | 1=Battery self test is running |
| | | | | Battery self-test is aborted because the system detects a critical alarm | | ENUM | | | 2=Battery self-test is aborted because the system detects a critical alarm |
| | | | | Battery self-test is aborted due to user command | | ENUM | | | 3=Battery self test is aborted due to user command |
| | | | | Battery self-test is completed | | ENUM | | | 4=Battery self test is completed |
| 45645 | 0x160C | 5644 | | Status indicates the battery health state result from battery test | 1 | | | | |
| | | | | Battery condition is OK | | ENUM | | | 0=Battery condition is OK |
| | | | | Battery condition is unknown | | ENUM | | | 1=Battery condition is unknown |
| | | | | Battery condition is weak | | ENUM | | | 2=Battery condition is weak |
| | | | | Battery condition is poor | | ENUM | | | 3=Battery condition is poor |
| 45646 | 0x160D | 5645 | | The operation mode of the charger | 1 | | | | |
| | | | | Battery is resting | | ENUM | | | 0=Battery is resting |
| | | | | Battery is charging | | ENUM | | | 1=Battery is charging |
| | | | | Battery is discharging | | ENUM | | | 2=Battery is discharging |
| 45647 | 0x160E | 5646 | | Measurement of the total available battery capacity in Ah for the UPS | 1 | UINT16 | 1 | 1 | Ah |
| 45648 | 0x160F | 5647 | | Status that indicates if there are battery modules from different vendors installed in the modular battery system (not on string level but on system level) | 1 | | | | |
| | | | | State is OK | | ENUM | | | 0=State is OK |
| | | | | State is not OK | | ENUM | | | 1=State is not OK |
| 45649 | 0x1610 | 5648 | | Modular battery DC relay status | 1 | | | | NA |
| | | | | Breaker is opened | | ENUM | | | 0=Breaker is opened |
| | | | | Breaker is closed | | ENUM | | | 1=Breaker is closed |
| 45889 | 0x1700 | 5888 | | Switchgear system status | 1 | | | | |
| | | | 0 | Unit input breaker (UIB) status | | BOOLEAN | | | 1=Closed |
| | | | 1 | Unit output breaker (UOB) status | | BOOLEAN | | | 1=Closed |
| | | | 2 | Static switch input breaker (SSIB) status | | BOOLEAN | | | 1=Closed |
| | | | 3 | Internal maintenance bypass breaker (IMB) status | | BOOLEAN | | | 1=Closed |

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|----------------------------------|--|---|-----|---|--------|-----------|----------------------|--------------------|--|
| | | | | | | | Multiply Reading By: | Divide Reading By: | |
| | | | 4 | Maintenance bypass breaker (MBB) status | | BOOLEAN | | | 1=Closed |
| | | | 5 | Redundant internal maintenance bypass breaker (RIMB) status | | BOOLEAN | | | 1=Closed |
| | | | 6 | System isolation breaker (SIB) status | | BOOLEAN | | | 1=Closed |
| 45890 | 0x1701 | 5889 | | Status of the firmware upgrade process | 1 | | | | |
| | | | | Firmware update in INIT state | | ENUM | | | 0=Firmware update in INIT state |
| | | | | Firmware update in IDLE State | | ENUM | | | 1=Firmware update in IDLE State |
| | | | | Firmware package is DOWNLOADING | | ENUM | | | 2=Firmware package is DOWNLOADING |
| | | | | Firmware package is INSTALLING | | ENUM | | | 3=Firmware package is INSTALLING |
| | | | | Firmware package is in REBOOTING state | | ENUM | | | 4=Firmware package is in REBOOTING state |
| | | | | Firmware update in FULL_SYS_UPDATE_FAIL state | | ENUM | | | 5=Firmware update in FULL_SYS_UPDATE_FAIL state |
| | | | | Firmware update in FULL_SYS_UPDATE_DONE state | | ENUM | | | 6=Firmware update in FULL_SYS_UPDATE_DONE state |
| | | | | Firmware update in FULL_SYS_UPDATE_ABORTED state | | ENUM | | | 7=Firmware update in FULL_SYS_UPDATE_ABORTED state |
| | | | | Firmware update in SPARE_PART_UPDATE state | | ENUM | | | 8=Firmware update in SPARE_PART_UPDATE state |
| | | | | Firmware update did not succeed | | ENUM | | | 9=Firmware update did not succeed |
| 45891 | 0x1702 | 5890 | | Reserved | 1 | | | | |
| 45892 | 0x1703 | 5891 | | The present operation mode of the complete UPS system | 1 | | | | |
| | | | | System: off operation | | ENUM | | | 0=System is in off operation |
| | | | | System: inverter operation | | ENUM | | | 1=System is in inverter operation |
| | | | | System: forced static bypass operation | | ENUM | | | 2=System is in forced static bypass operation |
| | | | | System: requested static bypass operation | | ENUM | | | 3=System is in requested static bypass operation |
| | | | | System: maintenance bypass operation | | ENUM | | | 4=System is in maintenance bypass operation |
| | | | | System: static bypass standby operation | | ENUM | | | 5=System is in static bypass standby operation |
| | | | | System: ECOversion mode | | ENUM | | | 6=System is in ECOversion mode |
| | | | | System: ECO mode | | ENUM | | | 7=System is in ECO mode |
| 45893 | 0x1704 | 5892 | | The present operation mode of the UPS | 1 | | | | |
| | | | | UPS: initialize operation | | ENUM | | | 0=UPS is in initialize operation |
| | | | | UPS: off operation | | ENUM | | | 1=UPS is in off operation |
| | | | | UPS: battery operation | | ENUM | | | 2=UPS is in battery operation |
| | | | | UPS: normal operation | | ENUM | | | 3=UPS is in normal operation |
| | | | | UPS: forced static bypass operation | | ENUM | | | 4=UPS is in forced static bypass operation |
| | | | | UPS: requested static bypass operation | | ENUM | | | 5=UPS is in requested static bypass operation |
| | | | | UPS: maintenance bypass operation | | ENUM | | | 6=UPS is in maintenance bypass operation |
| | | | | UPS: emergency static bypass operation | | ENUM | | | 7=UPS is in emergency static bypass operation |
| | | | | UPS: inverter standby operation | | ENUM | | | 8=UPS is in inverter standby operation |
| | | | | UPS: static bypass standby operation | | ENUM | | | 9=UPS is in static bypass standby operation |
| | | | | UPS: battery test | | ENUM | | | 10=UPS is in battery test |
| | | | | UPS: inverter SPoT mode | | ENUM | | | 11=UPS is in inverter SPoT mode |
| | | | | UPS: charger SPoT mode | | ENUM | | | 12=UPS is in charger SPoT mode |
| | | | | UPS: battery SPoT mode | | ENUM | | | 13=UPS is in battery SPoT mode |
| | | | | UPS: ECOversion mode | | ENUM | | | 14=UPS is in ECOversion mode |
| | | | | UPS: ECO mode | | ENUM | | | 15=UPS is in ECO mode |

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|----------------------------------|--|---|-----|---|--------|-----------|----------------------|--------------------|------------------------------|
| | | | | | | | Multiply Reading By: | Divide Reading By: | |
| 45894 | 0x1705 | 5893 | | UPS base model number check | 1 | | | | NA |
| | | | | State is OK | | ENUM | | | 0=State is OK |
| | | | | State is not OK | | ENUM | | | 1=State is not OK |
| 46145 | 0x1800 | 6144 | | The present phase-to-phase input current in amperes in A (phase 1) | 1 | UINT16 | 0.1 | 10 | A |
| 46146 | 0x1801 | 6145 | | The present phase-to-phase input current in amperes in A (phase 2) | 1 | UINT16 | 0.1 | 10 | A |
| 46147 | 0x1802 | 6146 | | The present phase-to-phase input current in amperes in A (phase 3) | 1 | UINT16 | 0.1 | 10 | A |
| 46148 | 0x1803 | 6147 | | The present phase-to-phase bypass current in amperes in A (phase 1) | 1 | UINT16 | 0.1 | 10 | A |
| 46149 | 0x1804 | 6148 | | The present phase-to-phase bypass current in amperes in A (phase 2) | 1 | UINT16 | 0.1 | 10 | A |
| 46150 | 0x1805 | 6149 | | The present phase-to-phase bypass current in amperes in A (phase 3) | 1 | UINT16 | 0.1 | 10 | A |
| 46151 | 0x1806 | 6150 | | The present phase-to-phase output current in amperes in A (phase 1) | 1 | UINT16 | 0.1 | 10 | A |
| 46152 | 0x1807 | 6151 | | The present phase-to-phase output current in amperes in A (phase 2) | 1 | UINT16 | 0.1 | 10 | A |
| 46153 | 0x1808 | 6152 | | The present phase-to-phase output current in amperes in A (phase 3) | 1 | UINT16 | 0.1 | 10 | A |
| 46154 | 0x1809 | 6153 | | The present total apparent output power (for all three phases) for the parallel system | 1 | UINT16 | 0.1 | 10 | kVA |
| 46155 | 0x180A | 6154 | | The percentage of the UPS system capacity presently used across all phases. The load percentage for the highest phase load is displayed | 1 | UINT16 | 0.1 | 10 | % |
| 46156 | 0x180B | 6155 | | The present total active output power (for all three phases) for the parallel system | 1 | UINT16 | 0.1 | 10 | kW |
| 46401 | 0x1900 | 6400 | | The temperature measured by the sensor | 1 | UINT16 | 0.1 | 10 | °C |
| 46402 | 0x1901 | 6401 | | The humidity measured by the sensor | 1 | UINT16 | 0.1 | 10 | % RH |
| Configuration Data | | | | | | | | | |
| 48193 | 0x2000 | 8192 | | This is the configured AC voltage system setting. The setting applies for input as well if no specific setting is placed in input system. | 1 | | | | |
| | | | | Output voltage 380VAC PhPh | | ENUM | | | 0=Output voltage 380VAC PhPh |
| | | | | Output voltage 400VAC PhPh | | ENUM | | | 1=Output voltage 400VAC PhPh |
| | | | | Output voltage 415VAC PhPh | | ENUM | | | 2=Output voltage 415VAC PhPh |
| | | | | Output voltage 480VAC PhPh | | ENUM | | | 3=Output voltage 480VAC PhPh |
| | | | | Output voltage 208VAC PhPh | | ENUM | | | 4=Output voltage 208VAC PhPh |
| | | | | Output voltage 200VAC PhPh | | ENUM | | | 5=Output voltage 200VAC PhPh |
| | | | | Output voltage 220VAC PhPh | | ENUM | | | 6=Output voltage 220VAC PhPh |
| | | | | Output voltage 440VAC PhPh | | ENUM | | | 7=Output voltage 440VAC PhPh |

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|----------------------------------|--|---|-----|---|--------|-----------|----------------------|--------------------|-----------------------------------|
| | | | | | | | Multiply Reading By: | Divide Reading By: | |
| 48194 | 0x2001 | 8193 | | Setting for single mains or dual mains supply | 1 | | | | |
| | | | | Single mains system | | ENUM | | | 0=Single mains system |
| | | | | Dual mains system | | ENUM | | | 1=Dual mains system |
| 48195 | 0x2002 | 8194 | | Ramp in timer for input current limitation during transfer from battery to normal operation | 1 | UINT16 | | | Sec |
| 48196 | 0x2003 | 8195 | | Defines the AC wiring of the system: 3-wire does not include neutral; 4-wire includes neutral | 1 | | | | |
| | | | | 3-wire system configuration | | ENUM | | | 0=3 wire-system configuration |
| | | | | 4-wire system configuration | | ENUM | | | 1=4 wire-system configuration |
| | | | | 4-wire system configuration HRG | | ENUM | | | 2=4-wire system configuration HRG |
| 48197 | 0x2004 | 8196 | | Energy storage type | 1 | | | | |
| | | | | No energy storage | | ENUM | | | 0=No energy storage |
| | | | | Battery/batteries | | ENUM | | | 1=Battery/batteries |
| | | | | Flywheel | | ENUM | | | 2=Flywheel |
| | | | | Ultra capacitors | | ENUM | | | 3=Ultra capacitors |
| 48198 | 0x2005 | 8197 | | Voltage compensation. Increase voltage to compensate for different cable lengths | 1 | UINT16 | 0.1 | 10 | % |
| 48199 | 0x2006 | 8198 | | This is the output frequency setting including the tolerance. This drives whether the output is in sync with the input. | 1 | | | | |
| | | | | Frequency of 50 Hz +/- 1.0 Hz. | | ENUM | | | 0=Frequency of 50 Hz +/- 1.0 Hz. |
| | | | | Frequency of 50 Hz +/- 3.0 Hz. | | ENUM | | | 1=Frequency of 50 Hz +/- 3.0 Hz. |
| | | | | Frequency of 60 Hz +/- 1.0 Hz. | | ENUM | | | 2=Frequency of 60 Hz +/- 1.0 Hz. |
| | | | | Frequency of 60 Hz +/- 3.0 Hz. | | ENUM | | | 3=Frequency of 60 Hz +/- 3.0 Hz. |
| | | | | Frequency of 50 Hz +/- 10.0 Hz. | | ENUM | | | 4=Frequency of 50 Hz +/- 10.0 Hz. |
| | | | | Frequency of 60 Hz +/- 10.0 Hz. | | ENUM | | | 5=Frequency of 60 Hz +/- 10.0 Hz. |
| 48200 | 0x2007 | 8199 | | The UPS power rating (kVA). | 1 | UINT16 | | | kVA |
| 48201 | 0x2008 | 8200 | | Acceptable voltage as percent of nominal voltage (voltage tolerance) | 1 | UINT16 | | | % |
| 48202 | 0x2009 | 8201 | | Delay time before autostart of the inverter after input source returns after an outage | 1 | | | | |
| | | | | Function disabled | | ENUM | | | 0=Function disabled |
| | | | | Function enabled | | ENUM | | | 1=Function enabled |
| 48203 | 0x200A | 8202 | | Set user-defined threshold for output overload status. | 1 | UINT16 | 0.1 | 10 | % |
| 48204 | 0x200B | 8203 | | Settings for autoboot mode of the charger | 1 | | | | |
| | | | | Disable autoboot charger | | ENUM | | | 0=Disable autoboot charger |
| | | | | Enable autoboot charger | | ENUM | | | 1=Enable autoboot charger |
| 48205 | 0x200C | 8204 | | Setting for charge current rate by user | 1 | UINT16 | 0.01 | 100 | |
| 48206 | 0x200D | 8205 | | Setting for auto cyclic mode charge mode | 1 | | | | |
| | | | | Function disabled | | ENUM | | | 0=Function disabled |
| | | | | Function enabled | | ENUM | | | 1=Function enabled |
| 48207 | 0x200E | 8206 | | Configuration of breakers | 1 | | | | |
| | | | | Not present | | ENUM | | | 0=Not present |
| | | | | Present | | ENUM | | | 1=Present |
| 48208 | 0x200F | 8207 | | Configuration of breakers | 1 | | | | |
| | | | | Not present | | ENUM | | | 0=Not present |
| | | | | Present | | ENUM | | | 1=Present |

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|----------------------------------|--|---|-----|--|--------|-----------|----------------------|--------------------|--|
| | | | | | | | Multiply Reading By: | Divide Reading By: | |
| 48209 | 0x2010 | 8208 | | Battery deep discharge settings. | 1 | | | | |
| | | | | Deep discharge is not allowed. | | ENUM | | | 0=Deep discharge is not allowed. |
| | | | | Deep discharge is allowed. | | ENUM | | | 1=Deep discharge is allowed. |
| 48210 | 0x2011 | 8209 | | Setting for minimum allowed temperature | 1 | UINT16 | 0.1 | 10 | Celsius |
| 48211 | 0x2012 | 8210 | | Setting for maximum allowed temperature | 1 | UINT16 | 0.1 | 10 | Celsius |
| 48212 | 0x2013 | 8211 | | Battery solution setting for predefined battery solutions | 1 | | | | |
| | | | | Custom battery solution | | ENUM | | | 0=Custom battery solution |
| | | | | Battery solution type GVSCBC7A | | ENUM | | | 1=Battery solution type GVSCBC7A |
| | | | | Battery solution type GVSCBC7B | | ENUM | | | 2=Battery solution type GVSCBC7B |
| | | | | Battery solution type GVSCBC7C | | ENUM | | | 3=Battery solution type GVSCBC7C |
| | | | | Battery solution type GVSCBC10A/GVSCBC10A2 | | ENUM | | | 4=Battery solution type GVSCBC10A/GVSCBC10A2 |
| | | | | Battery solution type GVSCBC10B/GVSCBC10B2 | | ENUM | | | 5=Battery solution type GVSCBC10B/GVSCBC10B2 |
| | | | | Battery solution type GVSCBT1/GVSCBT1ST | | ENUM | | | 6=Battery solution type GVSCBT1/GVSCBT1ST |
| | | | | Battery solution type GVSCBT2/GVSCBT2ST | | ENUM | | | 7=Battery solution type GVSCBT2/GVSCBT2ST |
| | | | | Battery solution type GVSCBT3/GVSCBT3ST | | ENUM | | | 8=Battery solution type GVSCBT3/GVSCBT3ST |
| | | | | Battery solution type GVSCBT4/GVSCBT4ST | | ENUM | | | 9=Battery solution type GVSCBT4/GVSCBT4ST |
| | | | | Battery solution type GVSCBT5/GVSCBT5ST | | ENUM | | | 10=Battery solution type GVSCBT5/GVSCBT5ST |
| | | | | Battery solution type LIBATTSMGEIEC | | ENUM | | | 11=Battery solution type LIBATTSMGEIEC |
| | | | | Battery solution type LIBATTSMGEUL | | ENUM | | | 12=Battery solution type LIBATTSMGEUL |
| | | | | Modular battery solution | | ENUM | | | 13=Modular battery solution |
| | | | | Battery solution type GVSCBT6ST | | ENUM | | | 14=Battery solution type GVSCBT6ST |
| | | | | Battery solution type GVSCBT7ST | | ENUM | | | 15=Battery solution type GVSCBT7ST |
| 48213 | 0x2014 | 8212 | | Setting for automatic test | 1 | | | | |
| | | | | Never autotest | | ENUM | | | 0=Never autotest |
| | | | | Autotest every week | | ENUM | | | 1=Autotest every week |
| | | | | Autotest every 2 week | | ENUM | | | 2=Autotest every 2 week |
| | | | | Autotest every 4 week | | ENUM | | | 3=Autotest every 4 week |
| | | | | Autotest every 8 week | | ENUM | | | 4=Autotest every 8 week |
| | | | | Autotest every 12 week | | ENUM | | | 5=Autotest every 12 week |
| | | | | Autotest every 26 week | | ENUM | | | 6=Autotest every 26 week |
| | | | | Autotest every 52 week | | ENUM | | | 7=Autotest every 52 week |
| 48214 | 0x2015 | 8213 | | Time of day battery test should start. The min should be 0 the max should be 86399 (24 hours). | 2 | UINT32 | 1 | 1 | Sec |
| 48216 | 0x2017 | 8215 | | Day of week battery test should start | 1 | | | | |
| | | | | Test on Monday | | ENUM | | | 0=Test on Monday |
| | | | | Test on Tuesday | | ENUM | | | 1=Test on Tuesday |
| | | | | Test on Wednesday | | ENUM | | | 2=Test on Wednesday |
| | | | | Test on Thursday | | ENUM | | | 3=Test on Thursday |
| | | | | Test on Friday | | ENUM | | | 4=Test on Friday |
| | | | | Test on Saturday | | ENUM | | | 5=Test on Saturday |
| | | | | Test on Sunday | | ENUM | | | 6=Test on Sunday |
| 48217 | 0x2018 | 8216 | | Switchgear system setting | 1 | | | | NA |
| | | | 0 | Unit input breaker (UIB) setting | | BOOLEAN | | | 1=Present |
| | | | 1 | Unit output breaker (UOB) setting | | BOOLEAN | | | 1=Present |

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|----------------------------------|--|---|-----|--|--------|-----------|----------------------|--------------------|--|
| | | | | | | | Multiply Reading By: | Divide Reading By: | |
| | | | 2 | Static switch input breaker (SSIB) setting | | BOOLEAN | | | 1=Present |
| | | | 3 | Maintenance bypass breaker (MBB) setting | | BOOLEAN | | | 1=Present |
| | | | 4 | Redundant internal maintenance breaker (RIMB) setting | | BOOLEAN | | | 1=Present |
| | | | 5 | System isolation breaker (SIB) setting | | BOOLEAN | | | 1=Present |
| 48218 | 0x2019 | 8217 | | Slew rate of the inverter | 1 | | | | NA |
| | | | | Slew rate is 0.25 Hz/s | | ENUM | | | 0=Slew rate is 0.25 Hz/s |
| | | | | Slew rate is 0.50 Hz/s | | ENUM | | | 1=Slew rate is 0.50 Hz/s |
| | | | | Slew rate is 1 Hz/s | | ENUM | | | 2=Slew rate is 1 Hz/s |
| | | | | Slew rate is 2 Hz/s | | ENUM | | | 3=Slew rate is 2 Hz/s |
| | | | | Slew rate is 4 Hz/s | | ENUM | | | 4=Slew rate is 4 Hz/s |
| | | | | Slew rate is 6 Hz/s | | ENUM | | | 5=Slew rate is 6 Hz/s |
| 48219 | 0x201A | 8218 | | Setting for adjusting the output voltage to compensate for load dependant transformer voltage drop. It must be synchronized in parallel systems. | 1 | UINT16 | | | % |
| 48220 | 0x201B | 8219 | | Setting to configure break duration in ms. when shifting to an asynchronous bypass. | 1 | UINT16 | 1 | 1 | ms |
| 48221 | 0x201C | 8220 | | The charging capacity based on system kW rating. | 1 | UINT16 | 1 | 1 | % |
| 48222 | 0x201D | 8221 | | The number of modular battery cabinets connected to the UPS. | 1 | UINT16 | | | |
| 48223 | 0x201E | 8222 | | The parallel UPS number of the operated UPS. | 1 | UINT16 | 1 | 1 | NA |
| 48224 | 0x201F | 8223 | | Setting for which parallel UPSs are present in the system. Each UPS can be selected as present or not present. | 1 | | | | NA |
| | | | 0 | unit_1 | | BOOLEAN | | | 1=Present |
| | | | 1 | unit_2 | | BOOLEAN | | | 1=Present |
| | | | 2 | unit_3 | | BOOLEAN | | | 1=Present |
| | | | 3 | unit_4 | | BOOLEAN | | | 1=Present |
| 48225 | 0x2020 | 8224 | | The selected number of redundant UPSs in the parallel system. | 1 | | | | NA |
| | | | | N+0 | | ENUM | | | 0=N+0 |
| | | | | N+1 | | ENUM | | | 1=N+1 |
| | | | | N+2 | | ENUM | | | 2=N+2 |
| | | | | N+3 | | ENUM | | | 3=N+3 |
| 48226 | 0x2021 | 8225 | | The minimum number of parallel units available to start up automatically. | 1 | UINT16 | 1 | 1 | NA |
| 48227 | 0x2022 | 8226 | | Status to indicate whether there are enough UPSs for the parallel system to enter the inverter operation mode. | 1 | | | | NA |
| | | | | State is OK | | ENUM | | | 0=State is OK |
| | | | | State is not OK | | ENUM | | | 1=State is not OK |
| 48228 | 0x2023 | 8227 | | Battery type of the connected batteries | 1 | | | | NA |
| | | | | Valve-regulated lead-acid, or maintenance-free | | ENUM | | | 0=Valve-regulated lead-acid or maintenance-free battery type |
| | | | | Vented, flooded, wet, or open cell | | ENUM | | | 1=Vented, flooded, wet, or open cell battery type |
| | | | | Lithium-ion | | ENUM | | | 2=Lithium-ion battery type |

| Modicon Standard Register Number | Absolute Starting Register Address, (Hexa-decimal) | Absolute Starting Register Address, (Decimal) | Bit | Data Point | Length | Data Type | Scale | | Valid Response |
|----------------------------------|--|---|-----|------------|--------|-----------|----------------------|--------------------|---------------------|
| | | | | | | | Multiply Reading By: | Divide Reading By: | |
| | | | | NiCd | | ENUM | | | 3=NiCd battery type |

Worldwide Customer Support

Customer support for this or any other product is available at no charge in any of the following ways:

* Visit the Schneider Electric Web site to access documents in the Schneider Electric Knowledge Base and to submit customer support requests.

– www.schneider-electric.com (Corporate Headquarters)

Connect to localized Schneider Electric Web sites for specific countries, each of which provides customer support information.

– www.schneider-electric.com/support/

Global support searching Schneider Electric Knowledge Base and using e-support.

* Contact the Schneider Electric Customer Support Center by telephone or e-mail.

– Local, country-specific centers: go to www.schneider-electric.com > Support > Operations around the world for contact information.

For information on how to obtain local customer support, contact the representative or other distributors from whom you purchased your product.

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