

Engineering Specifications

Multi Circuit Meter

- A. The Multi Circuit Meter shall consist of digital electronic circuitry.
- B. The Multi Circuit Meter shall accept 24 standard 5 Amp CT inputs.
- C. The Multi Circuit Meter shall monitor 8 3-phase circuits or 6 3-phase plus neutral circuits.
- D. The Multi Circuit Meter shall have a variable update rate of 1.6 seconds for all measured variables (excluding voltages).
- E. The Multi Circuit Meter shall have a variable update rate of 200ms for voltages.
- F. The Multi Circuit Meter's accuracy shall be +/- 1% over a temperature range of 0-60° C.
- G. The Multi Circuit Meter shall require no annual recalibration by users in the field.
- H. The Multi Circuit Meter shall offer user-selectable 2 or 4 wire RS485 connection.
- I. The Multi Circuit Meter shall offer user-selectable addressing from 1-247.
- J. The Multi Circuit Meter shall offer user-selectable baud rate of 2400, 4800, 9600 or 19200.
- K. The Multi Circuit Meter shall offer user-selectable parity of None, Odd or Even.
- L. The Multi Circuit Meter shall meet UL and cUL specifications as listed in UL508.
- M. The Multi Circuit Meter shall provide a configurable warning alarm for all branch circuits monitored.
- N. The Multi Circuit Meter shall provide a configurable full-alarm for all branch circuits monitored.
- O. The Multi Circuit Meter shall communicate via Modbus RTU.
- P. The information and capabilities provided by the Multi Circuit Meter shall include the following:
 - a. Current, per phase & three-phase total
 - b. Voltage, per phase & three-phase total, phase-to-phase & phase-neutral
 - c. Real Power (kW), per phase & three-phase total
 - d. Reactive Power (kVAR), three phase total
 - e. Apparent Power (kVA), three phase total
 - f. Power Factor, per-phase & three-phase total
 - g. Real Energy (kWh), three phase total
 - h. Frequency (measured from phase A)
 - i. Over Voltage alarm
 - j. Under Voltage alarm
 - k. Over Current alarm
 - l. Under Current alarm
 - m. Over kVA alarm
 - n. Under kVA alarm
 - o. Phase loss A
 - p. Phase loss B
 - q. Phase loss C
- Q. The Multi Circuit Meter shall be the H8238 Series supplied by Veris Industries.