

Engineering Specifications

Communications Board for Commercial Energy Consumption Meter H8163

- A. The Communications Board shall consist of digital electronic circuitry.
- B. The Communications Board shall be compatible with the H8163 Commercial Energy Consumption Meter.
- C. The Communications Board shall be offered as a factory included option or as a field installed option.
- D. The Communications Board shall communicate via Modbus RTU.
- E. The Communications Board shall require no annual recalibration by users in the field.
- F. The Communications Board shall derive operating power from the meter it is inserted into, and shall not require a separate control power connection.
- G. The Communications Board shall offer user-selectable 2 or 4 wire RS485 connection.
- H. The Communications Board shall offer user-selectable addressing from 1-63.
- I. The Communications Board shall offer user-selectable baud rate of 2400, 4800, 9600 or 19200.
- J. The Communications Board shall offer user-selectable parity of None, Odd or Even.
- K. The Communications Board shall meet UR and cUR specifications as listed in 3111-1.
- L. The information and capabilities provided by the Communications Board shall include the following:
 - KWh, Consumption
 - KW, Real Power
 - KVAR, Reactive Power
 - KVA, Apparent Power
 - Power Factor
 - Average Real Power
 - Minimum Real Power
 - Maximum Real Power
 - Voltage, line to line
 - Voltage, line to neutral
 - Amps, Average Current
 - Real Power (kW), phase A
 - Real Power (kW), phase B
 - Real Power (kW), phase C
 - Power Factor, phase A
 - Power Factor, phase B
 - Power Factor, phase C
 - Voltage, phase A to phase B
 - Voltage, phase B to phase C
 - Voltage, phase A to phase C
 - Voltage, phase A to neutral
 - Voltage, phase B to neutral
 - Voltage, phase C to neutral
 - Amps, Current phase A
 - Amps, Current phase B
 - Amps, Current phase C
 - Interval kW/kVAR Demand
- M. The Communications Board shall be the H8163-CB Series supplied by Veris Industries.