

## **Engineering Specifications**

### **Modbus to LonTalk® Integration Node**

- A. The Integration Node shall consist of digital electronic circuitry.
- B. The Integration Node shall be compatible with the H8163/H8163-CB Commercial Energy Consumption Meter/Communications Board, and convert Modbus RTU to Lon Talk.
- C. The Integration Node shall work with indexed or bound methods.
- D. The Integration Node shall report data from up to 63 H8163 Commercial Energy Consumption Meters with the H8163-CB Communications Board, when using the indexed method.
- E. The Integration Node shall communicate at 9600 BAUD.
- F. The Integration Node shall operate on 16-24VAC/DC.
- G. The Integration Node shall operate over a temperature range of 0-60C.
- H. The Integration Node shall offer flexible mounting options to allow mounting on either 1-gang or 2-gang electrical boxes; nipped to conduit; or flush mounted.
- I. The information and capabilities provided by the Integration Node shall include the following:
  - a. KWh, Consumption
  - b. KW, Real Power
  - c. KVAR, Reactive Power
  - d. KVA, Apparent Power
  - e. Power Factor
  - f. Average Real Power
  - g. Minimum Real Power
  - h. Maximum Real Power
  - i. Voltage, line to line
  - j. Voltage, line to neutral
  - k. Amps, Average Current
  - l. Amps, Current phase A
  - m. Amps, Current phase B
  - n. Amps, Current phase C
  - o. Voltage, phase A to phase B
  - p. Voltage, phase B to phase C
  - q. Voltage, phase A to phase C
  - r. Voltage, phase A to neutral
  - s. Voltage, phase B to neutral
  - t. Voltage, phase C to neutral
  - u. Real Power (kW), phase A
  - v. Real Power (kW), phase B
  - w. Real Power (kW), phase C
  - x. Power Factor, phase A
  - y. Power Factor, phase B
  - z. Power Factor, phase C
- J. The Integration Node shall be the H8920-3 Series supplied by Veris Industries.