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; nippled 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.