

## H8920-3 Energy Meter to LonTalk® Integration Node



Building owners have requested open protocol standards for control systems, and many manufacturers have responded with Lon® and Bacnet® based control systems. In addition, deregulation has increased the demand for energy information in the present market. Customers will have choices, and making energy related decisions requires energy information. To answer the need for cost-effective energy information Veris Industries developed the H8163 commercial energy consumption meter.

The H8100 Series energy meters are easy to install, provide exceptional systems accuracy and are ideal for all submetering applications. The H8920 is the solution for interfacing H8163 meters to a LonWorks® network.

The H8920-3 LON integration node provides a cost-effective means of reporting energy information on LON networks. It is preconfigured to report all of the 26 energy variables measured by H8163 commercial energy consumption meters to LON networks.

Using an indexing method the H8920-3 can report the data from up to sixty-three H8163 Energy meters which reside on the downstream modbus network. Using a plug-in configuration tool or sending an input variable the Modbus address of the desired meter may be selected. The data can then be recorded before selecting another H8163. The H8920-3 can also be dedicated to one H8163 for binding purposes.

### Applications

- Submetering for commercial tenants... allocate costs
- Energy management and performance contracting
- Load shedding and demand control
- Activity based costing in commercial and industrial facilities

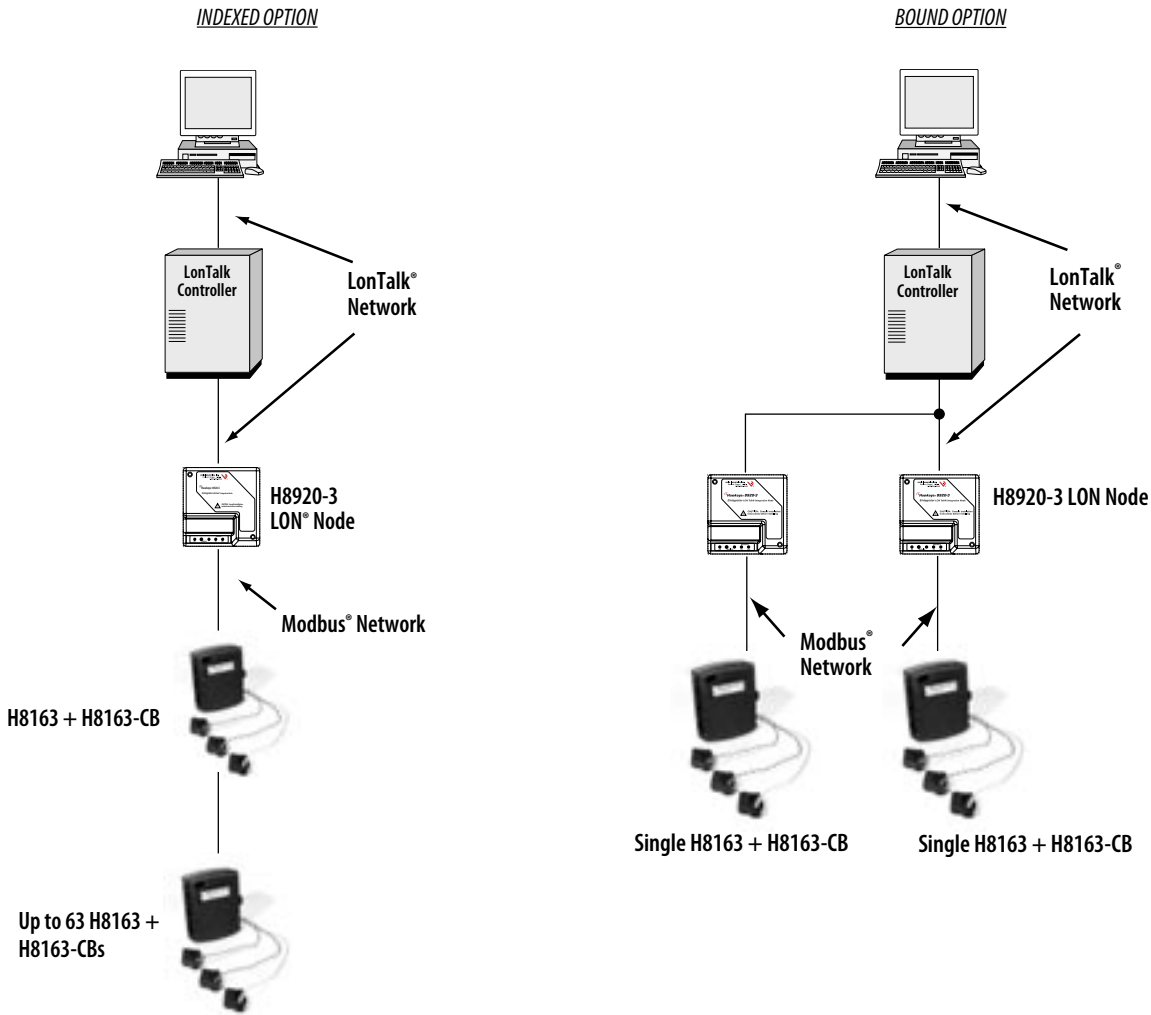
### Easy integration to Echelon networks

- The H8920-3 is preconfigured to pass all of the data points provided by the H8163 Commercial Energy Consumption Meter to a LON controller
- Easy cost-effective connectivity to LonWorks® systems...makes open connectivity possible
- Flexible mounting options save time and money

### ORDERING INFORMATION

MODEL	DESCRIPTION
H8920-3	Energy Meter to LonTalk integration node

APPLICATION EXAMPLES



SPECIFICATIONS

<b>LonWorks Network</b>	Free topology transceiver, 78 kbps
<b>Modbus Network</b>	RTU 9600 BAUD, 8N1 format
<i>Meter Data Network Variables</i>	
kWh, Consumption	kW, Real power ØA†
kW, Real power	kW, Real power ØB†
kVAR, Reactive power	kW, Real power ØC†
kVA, Apparent power	Power factor ØA†
Power factor	Power factor ØB†
Average Real power	Power factor ØC†
Minimum Real power	Voltage, ØA to ØB
Maximum Real power	Voltage, ØB to ØC
Voltage, line to line	Voltage, ØA to ØC
Voltage, line to neutral†	Voltage, ØA to Neutral†
Amps, Average current	Voltage, ØB to Neutral†
Amps, Current ØA	Voltage, ØC to Neutral†
Amps, Current ØB	
Amps, Current ØC	
<b>Input Power</b>	16-24VAC/DC, 100mA max.
<b>Temperature Range</b>	0 to 60°C
<b>Humidity Range</b>	0 - 95% non-condensing

†Based on derived neutral

DIMENSIONAL DRAWINGS

