H8920-1 *Enercept® H8036 to LonTalk® Integration Node*

Open protocol standards are a priority for building owners today, so many manufacturers have responded with Lon® and Bacnet® based control systems to meet the need. New customer choices in the deregulated energy market play a role as well, by making energy information a critical part of the energy consumer's decision-making process.

To answer the need for cost-effective energy information, Veris Industries developed the Enercept® series of power meters. These unique meters with the electronics built inside of compact, industrial grade current transformers can now be connected to LonWorks® networks through the H8920-1. Couple the simplified installation of H8036 Modbus® power meters to the flexible H8920 platform and realize installation savings of up to 70% when compared to "standard" power transducers.

The H8920-1 Lon integration node provides the pre-configured bridge between the twenty-six energy variables available from Enercept Enhanced Data Stream power meters and your Lon network controller via indexed or bound methods.

Using an indexing method, the H8920-1 reports data from up to sixty-three H8036 Enercept power meters on the downstream Modbus network. Just select the Modbus address of a specific meter with a plug-in configuration tool, or send an input variable to the network. Acquire and record the desired data, and move on to select another meter. The H8920-1 can also be dedicated to a single H8036 to function in a bound network.

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 H8920-1 is pre-configured to pass all 26 data points acquired by H8036 Enhanced Data Stream Meters to a Lon controller
- Easy cost-effective connectivity to LonWorks systems... makes open connectivity possible
- Flexible mounting and wiring options save time and money

ORDERING INFORMATION

MODEL	DESCRIPTION
H8920-1	Enercept to LonTalk® integration node

APPLICATION EXAMPLES

INDEXED OPTION

BOUND OPTION

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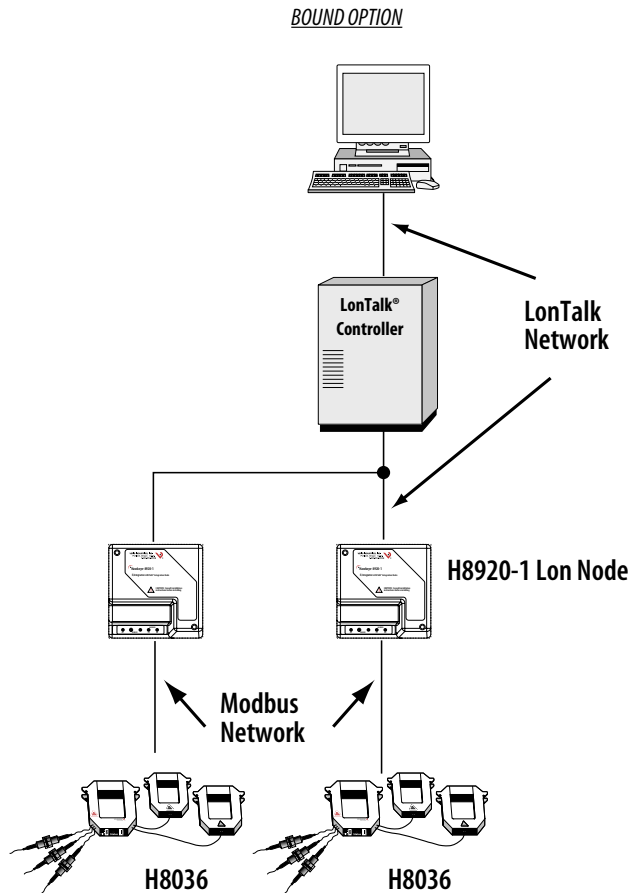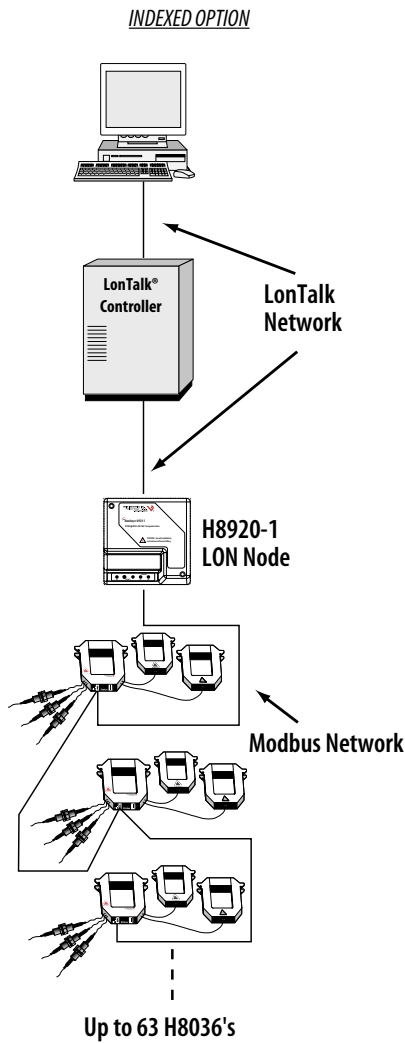
SPECIFICATIONS

LonWorks Network	Free topology transceiver, 78 kbps
Modbus Network	RTU 9600 BAUD, 8N1 format
Meter Data Network Variables	

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	

Input Power	16-24VAC/DC, 100mA (max.)
Temperature Range	0 to 60°C
Humidity Range	0 - 95% non-condensing

†Based on derived neutral

DIMENSIONAL DRAWINGS