



## Model 340LW Btu transmitter



### Features

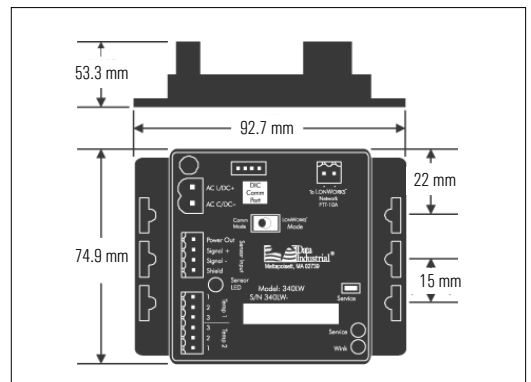
- Signal conversion to Lonworks® networks

### Description

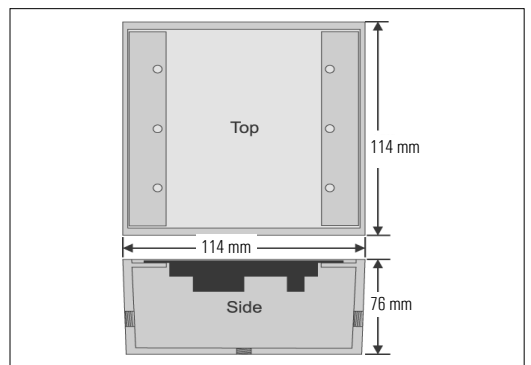
The series 340LW Btu transmitter is an economical, compact device for submetering applications that communicate via a Lonworks® network. The 340LW calculates thermal energy using the signal from a flow sensor installed in the systems inlet and outlet points. The flow input may be provided by an orifice sensor and many other pulse or sine wave signal flow sensors. The onboard microcontroller and digital circuitry make precise measurements and produce accurate drift free outputs. The 340LW is commissioned using Windows® based software. Calibration information for the flow sensor, type and pipe size may be preselected or entered in the field. While the unit is connected to a PC or laptop computer, real-time flow rate and total, temperatures and energy rate and total are available.

### Dimensions

#### Transmitter only



#### Metal enclosure dimensions



\*Data Industrial is a Badger Meter, Inc. company.



## Technical data

<b>Flow sensor input</b>	
All sensors	Excitation voltage 3 wire sensors: 7.9 – 11.4 VDC 270 $\Omega$ source impedance
<b>Pulse type sensors</b>	
Signal amplitude	2.5 VDC threshold
Signal limits	Vin < 35 V (DC or AC peak)
Frequency	0-10 kHz
Pull-up	2 k $\Omega$
<b>Sine wave sensors</b>	
Signal amplitude	10 mV p-p threshold
Signal limits	Vin < 35 V (DV or AC peak)
Frequency	0-10 kHz
<b>Stromversorgung</b>	
Power supply options	12-24 VDC 12-24 VAC
Current draw	60 mA @ 12 VDC
Temperature sensor input	2 required: 10 k $\Omega$ thermistor, 2 wire, type II, 10 K $\Omega$ @ 25°C
Operating temperature	-29°C to +70°C (-20°F to +158°F)
Storage temperature	-40°C to +85°C (-40°F to +185°F)
Weight	136 g with headers installed
<b>Sensor calibration</b>	
Data Industrial	Use "K" and "offset" provided in sensor owner's manual
Other sensors	Check with factory
Measurement outputs	Transmitted in SI units
Flow	Rate and total
Energy	Rate and total
Programming	Requires PC or laptop running Windows® 9x, ME, NT, 2000, XP A-340LW programming kit containing software and A301 programming cable

The series 340LW transmitter features three LEDs to verify sensor input "signal" and Lonworks® "service" and "wink". The series 340LW communicates via a single two wire bus. Data such as flow rate, temperature of either thermistor, energy rate, flow total, temperature differential or energy total is transmitted in SI units using Standard Network

Variable Types (SNVTs). The series 340LW Btu transmitter operates on AC or DC power supplies ranging from 12 to 24 Volts. The compact cast epoxy body measures 93 mm (3.65") x 75 mm (2.95") and can be easily mounted on panels, DIN rails or enclosures.

## Series 340LW ordering matrix

	Example:	340LW	---	xx
<b>Series</b>	Btu transmitter with Lonworks® output	340LW		
<b>Options</b>	Transmitter only			00
	W/ metal enclosure			02
	W/ DIN rail mounting clips			04