

The Series I-340LW Btu Transmitter is an economical, compact device for sub-metering applications that communicate via a LONWORKS® network.

The I-340LW calculates thermal energy using the signal from a flow sensor installed in a closed pipe system, and the signals from two 10kΩ temperature thermistors installed in the systems inlet and outlet points. The flow input may be provided by any of our pulse or sine wave signal flow sensors.

The onboard microcontroller and digital circuitry make precise measurements and produce accurate, drift-free outputs. The I-340LW is commissioned using a 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.

The Series I-340LW Transmitter features three LED's to verify, sensor input "signal" and LONWORKS® "service" and "wink".



### I-340LW Series Ordering Matrix

|                |                                       |                  |      |
|----------------|---------------------------------------|------------------|------|
|                |                                       | EXAMPLE: I-340LW | - xx |
| <b>SERIES</b>  | Btu Transmitter with LONWORKS® Output | I-340LW          |      |
| <b>OPTIONS</b> | Transmitter Only                      |                  | 00   |
|                | W / Metal Enclosure                   |                  | 02   |
|                | W / DIN Rail Mounting Clips           |                  | 04   |

LonWorks® is a registered trademark of Echelon Corporation

The Series I-340LW communicates via a single two wire buss. 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 (SNVT's).

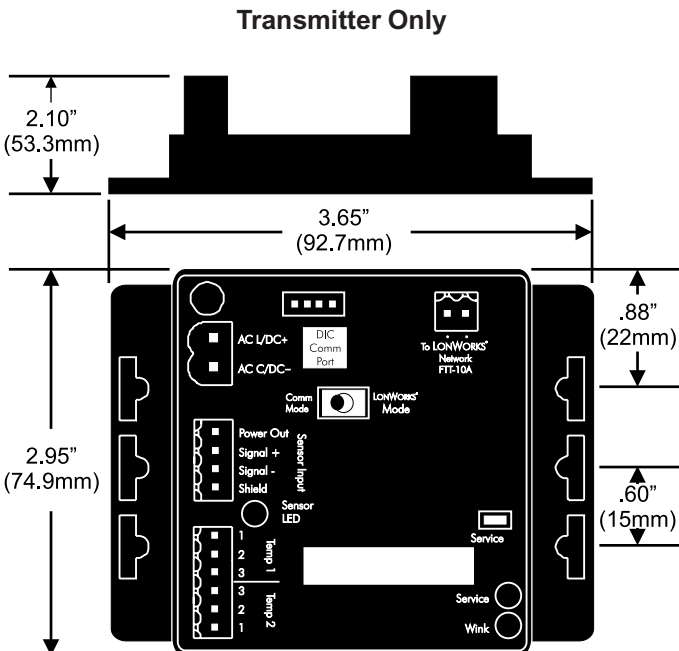
The Series I-340LW Btu Transmitter operates on AC or DC power supplies ranging from 12 to 24 volts.

The compact cast epoxy body measures 3.65" (93mm) x 2.95" (75mm) and can be easily mounted on panels, DIN rails or enclosures.



LONMARK®

Not a controlled document.



## Specifications

### Flow Sensor Input

All sensors:

Excitation voltage 3 wire sensors:

7.9 – 11.4 VDC 270Ω source impedance

Pulse type sensors:

Signal amplitude: 2.5 VDC threshold

Signal limits:  $V_{in} < 35V$  (DC or AC peak)

Frequency:

0-10kHz

Pull-up:

2 kΩ

Sine Wave Sensors:

Signal amplitude: 10 mV p-p threshold

Signal limits:  $V_{in} < 35V$  (DC or AC peak)

Frequency:

0-10kHz

### Power

Power supply options:

12-24 VDC

12-24 VAC

Current Draw:

60 mA @ 12 VDC

### Temperature Sensor Input

2 required:

10 kΩ thermistor, 2 wire, type II, 10 kΩ @ 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

4.8 oz. with headers installed

### SENSOR CALIBRATION

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

### Temperature

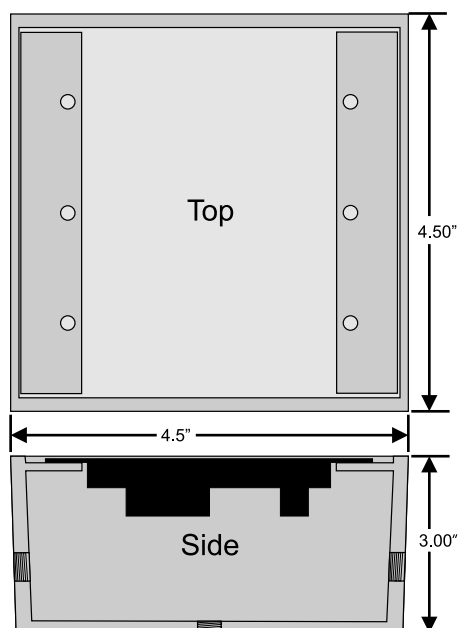
### PROGRAMMING

Requires PC or laptop running Windows® 9x, ME, NT, 2000

I-A-340LW

programming kit containing software and I-A301 programming cable

**Metal Box Dimensions**



Not a controlled document.