

## WATT MATE MODEL 348 AC POWER TRANSDUCER

### LonWorks® Compatible AC Power Measurement

The Watt Mate model 348 is an advanced micro-computer based multi-channel power measurement transducer with an optional LonWorks® Power Line Carrier interface. The Watt Mate can measure single- split- network and three-phase power on 4 channels. When used without the LonWorks interface, each 3 phase channel provides real and apparent power data in the form of pulse outputs which can be read by virtually any data logger. An RS-232 port allows direct connection of a PC to the Watt Mate. From the PC, CT size and desired Wh/pulse output can be set. Over the LON, all measured parameters, Phase Voltages, Amps, Watts and VoltAmps can be accessed in fully LonMark™ compliant format. The Watt Mate model 348 is an extremely easy to use, quickly installed powerful metering device.

#### FEATURES:

- Embedded Micro-Computer
- Sampling Measurement Method Suitable for VSD Power Measurement Applications
- Direct Connect Up to 480 Volts
- 4 Channels of Power Measurement
- LonWorks® PLC Interface
- RS-232 Interface For Easy PC Configuration of CT Size & Wh/Pulse
- EEPROM-Stored Configuration
- Real-Time Data Viewing
- Compact & Easy to Install

#### APPLICATIONS:

- Performance Contract
- Program Evaluation
- End-Use Load Survey
- Load Research
- Technology Assessment
- Energy Management
- Sub-Metering

#### SPECIFICATIONS:

##### Power Requirements:

Device Power: 120/240VAC Switchable

Operating Voltage Range:  $\pm 15\%$

Line Frequency: 50 - 60 Hz

##### Input Signals:

Input Voltage Range: 100 - 480 VAC RMS

Input Burden: 0.1 VA Maximum

Input Current Range: CT Dependent

##### Output Signals:

Output Form: Optically Isolated Form A

Maximum Applied Voltage: 50 VDC

Maximum Switched Current: 50 mA

Output Pulse Constant: 1 Wh/Pulse Default

1 VAh/Pulse Default

##### Accuracy:

Total Error:  $\pm 0.5\%$  of Reading (Excluding CTs)

##### Environmental:

Operating Temperature: 0°C to 65°C

Humidity Range: 0 - 99% Non-Condensing

##### General:

Activity Indicator: L.E.D. Flashing at 2 Hz

Pulse Indicator: L.E.D. for Each Output Pulse

Enclosure: 8"W x 14"H x 3"D NEMA 1 Rated

NEMA 4X Available on Request

### FOR MORE INFORMATION CONTACT

E N E R N E T  
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