POWER MONITORING & PROTECTION

METER PULSE-TO-ANALOG TRANSDUCER MPA-2

DESCRIPTION

The Model MPA-2 Meter Pulse-to-Analog Transducer accepts kWh totalizer pulses from a utility meter and calculates kW demand using a 5, 15, or 30-minute sliding window averaging scheme. The average kW demand value is provided as a milliamp or voltage signal, which can be read by a BAS. The average kW demand can also be displayed using panel meter indicators such as the LPI Series.

FEATURES

- · Converts kWh pulses to an analog kW signal
- · Both milliamp and VDC signals available
- 5, 15, or 30-minute sliding window selection
- 24 VAC/VDC power
- · Adjustable zero and span
- · Snap track-mounted
- · Furnished with complete instructions

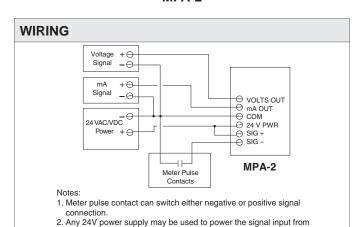
OPERATION

The Model MPA-2 accumulates all the input pulses for the previous sliding window time period (i.e.,15 minutes). It calculates an average kW value over this time period and outputs an analog signal representing this kW. The sliding window pulse count is updated on one-second intervals with the input from the oldest interval constantly being replaced by the input pulses from the most recent interval.





MPA-2



the meter pulse contacts, including the MPA-2 power supply as

SPECIFICATIONS

Supply Voltage 24 VAC ±10% or 24 VDC ±10%

120 mA maximum @ 24 VAC **Supply Current** 50 mA Maximum @ 24 VDC **Dip Switches** Sliding window size is DIP switch-

selectable for 5-, 15-, or 30-minute

periods:

kWh pulses to produce full-scale output are DIP switch selectable from 10 pulses per period to 18,000

pulses per period

Input Signal 24 VAC/VDC switched through electronic or mechanical contact

closure

Input Current Max Pulse Rate

Output Signal

15 mA non-inductive at 24V

10 pulses/seconds

4-20 mA factory set, adjustable 0-20 mA zero and span; 2-10 VDC factory

set, adjustable 0-18 VDC (both outputs can be used simultaneously) **Output Impedance**

Maximum output resistance 650Ω for mA output; maximum current available from voltage and current outputs combined is 25 mA

LED Indication

Green status LED (L2) Normal Steady green

Slow flashing green Calibration mode Rapid flashing green kW demand overflow

Red signal LED (L1) Contact closure on the utility meter

kWh contacts (LED is off when

contacts open)

Note: L3 and L4 stay ON during operation

Mounting 3.25" (8.3 cm) snap track

(supplied with unit) 3.25"H x 4.6"W x 1"D

Dimensions (8.3 x 11.7 x 2.54 cm)

Weight 0.39 lb (0.17 kg) Warranty 18 months

ORDERING INFORMATION

MODEL DESCRIPTION MPA-2 Meter pulse-to-analog transducer

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