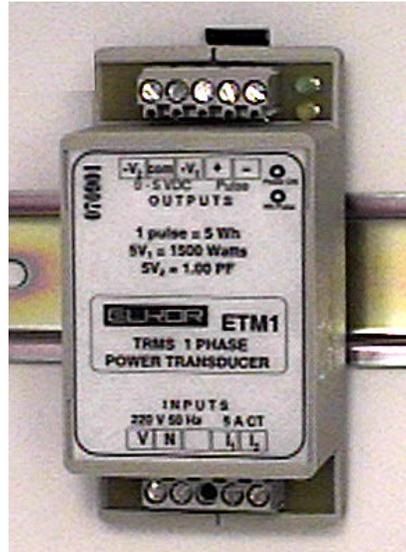


The ETM1 is a cost effective, true RMS single phase power transducer that provides pulses proportional to energy consumption (Watt-hours) and two analog signals proportional to other power

FEATURES

- ◆ Accurate, true RMS measurements.
- ◆ EMS compatible output signals:
 - slow SPDT pulses for DDC
 - standard 100 ms pulses for totalizers and counters.
 - two 5 V analog outputs
- ◆ Direct connection up to 240VAC.
- ◆ Standard 5A CT or small MCT current sensors that may eliminate the need for CTs.
- ◆ Reversed Wiring Immunity.
- ◆ Fast and Easy Installation (DIN Rail).



PRODUCT DESCRIPTION

The ELKOR ETM1 true RMS one phase transducer is a micro-processor based metering product designed specifically for residential or single phase commercial power monitoring. The ETM1 provides a cost effective and practical method for remote monitoring in single phase circuits. The transducer interfaces directly with any generic Energy Management System, PLCs or pulse counter-totalizers.

The ETM1 is powered from the metered line. As its current input the transducer accepts any standard 5A CT or Elkor's Miniature Current Transformer (MCT). In some installations the MCT sensor can be wired off the existing CT contributing to installation cost savings.

The ETM1 transducer is insensitive to input polarity . It provides optically isolated (open collector) pulses for Watt-hour and two 5 VDC analog outputs. As a standard, the Wh pulses are slow (50% duty cycle) and are easy to monitor by any control system via a standard DI point. The unit may be programmed to provide 100 ms pulses for totalizer-counters or data loggers. The first analog output represents instantaneous real power (Watts) while the second may be ordered to represent Volt-Amperes (VA), Voltage, Current or Power Factor. The ETM1 is housed in a high quality plastic enclosure c/w an universal DIN rail adapter. It features LED indication for pulsed output and excitation.

SPECIFICATIONS

INPUT:

Voltage (Single Phase) :
120 VAC, 127 VAC, 220 VAC, 240 VAC
Note: Voltage fluctuations +/-20% will not deteriorate metering accuracy.)

Current:

5A from a standard CT (ETM1-CT) or
mV signal from MCT (ETM1-MCT)

Max. Ratings: Voltage - 250 VAC
Current - 10 A (CT version)

OUTPUT:

Watt-hour Pulse - opto-isolator, open collector.
change of state (50% duty cycle max.
frequency 0.1 Hz) or 100 ms pulses.

Watts - 0-5 VDC (V1) output
VA, PF, V or Iabc available as 5 VDC on
second output (V2).

POWER SUPPLY REQUIREMENTS:

1 VA - excitation provided by the 'on board'
power supply;

ISOLATION:

2500 VAC 1sec. input to output.

ACCURACY:

0.8% ,TRMS of full rated span
(@ PF=1 to 0.7).

ENVIRONMENT:

Indoor; 0-50 C, 10-90%RH non-condensing.

WARRANTY:

Full two years manufacturer's warranty.