

CURRENT TRANSDUCERS

RMS CURRENT TRANSDUCER

MODEL MCTR

FEATURES

- Accurate RMS measurement of AC input
- 4-20mAdc 2-wire loop powered
- UL94V-0 Polyamide DIN-mount case
- Slim profile allows maximum use of available space
- Recessed terminals provide increased safety

APPLICATIONS

- Designed for use with current transformers
- Use with any CT with 0.1A, 1A, 5A, or 0.333V output
- True RMS transducer for accurately sensing current in single and 3-phase installations.
- Ideal for non-sinusoidal applications

2-WIRE LOOP POWERED, TRUE RMS

ORDERING INFORMATION

Example: 0-0.1A Input with
4-20mA Loop Powered Output.
MCTR-0.100E2



INPUT AC CURRENT	STANDARD OUTPUT MODEL MCTR-
	4-20mAdc
0-0.1A	0.100E2
0-1A	001E2
0-5A	005E2
0-0.333V	*0.333E2

*Note: 0.333V model requires isolation through CTs.

SPECIFICATIONS

INPUT

Current or Voltage..... See Table
Frequency Range Standard 50-60Hz
Burden 0.1A & 1A models 0.05VA
5A models 0.18VA
0.333V models 0.004VA

Current Overload

Continuous 1.5 X F.S. Rating
Transient (10s/hr)..... 5 X F.S. Rating

OUTPUT

Scaling..... 0-F.S. Input = 4-20mAdc Output
Response (to 90%) 300ms
Loading.. (@24Vdc. Instr. Pwr) 0-500Ω
Set Point Adjustment ±5% minimum

DIELECTRIC TEST

Input/Output..... Current input models 2220Vac
NOTE: 0.333V model requires isolation through the current transformer.

INSTRUMENT POWER

Loop-powered..... Nominal..... 24Vdc
Range..... 15-35Vdc

ACCURACY (Includes effects of linearity and setpoint)

50/60Hz 10-100% F.S. ±0.25% F.S.
Output Ripple..... <1.0% pk-pk

TEMPERATURE

Operating Range -20°C to +60°C
Effect ±1.0% F.S.

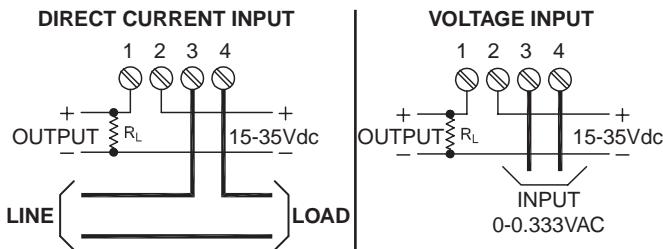
PHYSICAL

Termination Wire Size..... 22 to 12 AWG
Weight 0.4 Lb.
Unit can be mounted on RAIL EN50035 (DIN 1) OR
RAIL EN5022 (DIN 2)

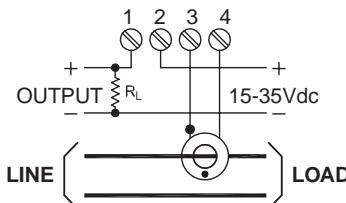
CURRENT TRANSDUCERS

Transducer output is derived from the RMS value of the input.
DIN-rail lengths available: Consult Factory

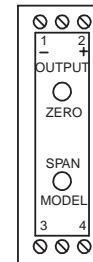
CONNECTION DIAGRAMS



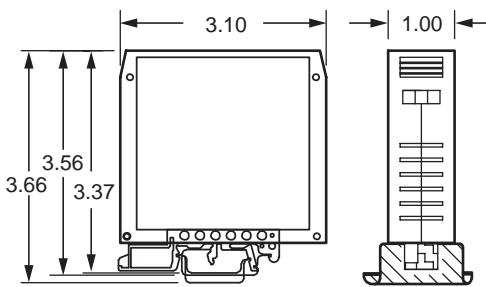
USING EXTERNAL CTS



ALL MODELS



DIMENSIONS



All Dimensions In Inches.

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