DIN RAIL MOUNTED AC CURRENT TRANSDUCER

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www.omnicontrols.com

MODEL MCT5

AC CURRENT TRANSD

FEATURES

- Ruggedized polyamide DIN mount case.
- Standard OSI five year warranty.
- Slim profile allows maximum use of available space.
- Field selectable analog outputs.
- Recessed terminals provide increased safety.

APPLICATIONS

- Ideal for enclosures with dimensional constraints.
- Designed for industrial environments.
- OEM measurement systems.
- Designed for use with OSI current transformers.
- Easily integrated into control systems.



INPUT	STANDARD OUTPUTS MODEL MCT5-		
AC AMPS	0 - 1mA*	4 - 20mA	4 - 20mA**
0 - 1 0 - 5	001A 005A	001E 005E (—	001E2 005E2



*Models are self-powered from measured ac input line with DIP switch selectable 0 - 1mA, 0 - 5Vdc, or 0 - 10Vdc output. **Denotes 4 - 20mA loop-powered unit, (15 - 35Vdc). 1" wide case can be mounted on rail EN50035 (DIN 1) or rail EN50022 (DIN 3).

Transducer output is derived from the average absolute value of the input and calibrated as the RMS value of a sine wave input.

MODEL MCT5 SPECIFICATIONS

INPUT

CURRENT: See table

FREQUENCY RANGE: 48 - 65 Hz.; 60 Hz. nom.

BURDEN: 1 Amp models: 0.05VA

5 Amp models: 0.175VA

CURRENT OVERLOAD:

2 times full-scale rating (continuous) 10 times full-scale rating (10 Sec./Hr.) DIELECTRIC TEST (Input/Output): 1500Vac

OUTPUT

ACCURACY: ±0.25% F.S. @ 60Hz

Includes effects of linearity and setpoint. OUTPUT RIPPLE: Less than 1.0% F.S.

RESPONSE TIME (99%): 400 milliseconds FIELD ADJUSTABLE SPAN: ±5% OUTPUT LOADING (OHMS):

4 - 20mA: 0 - 500

4 - 20mA (24V loop pwr.): 0 - 600

Field selectable: 0 - 1mA: 0 -10k

0 - 5Vdc: Greater than 5M

0 - 10Vdc: Greater than 10M

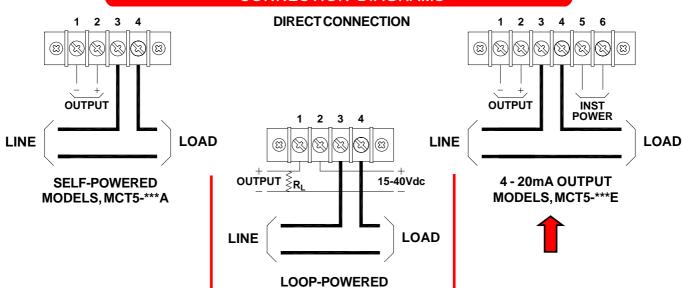
TEMPERATURE EFFECT (-20°C to +65°C): ±1.0%

INSTRUMENT POWER:

85 - 135 Vac, 50 - 400 Hz (4 - 20mA), 3.5VA

15 - 35Vdc (loop Powered)

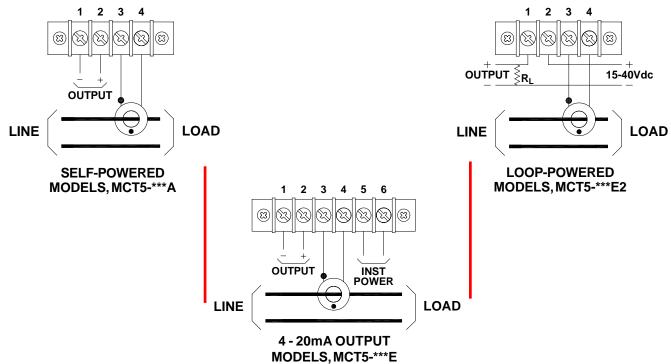
CONNECTION DIAGRAMS



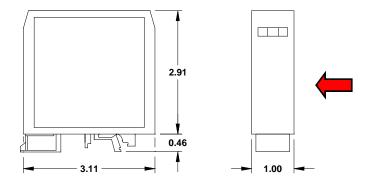
MODELS, MCT5-***E2



USING CURRENT TRANSFORMERS



CASE DIMENSIONS



All dimensions in inches. Weight: 0.24lbs.

OUTPUT SWITCH POSITIONS

OUTPUT	SWITCH	SWITCH
REQUIRED	POS. 1	POS. 2
0 - 1mA	OFF	OFF
0 - 5V	ON	ON
0 - 3V 0 - 10V	ON	OFF

TWO POSITION SWITCH LOCATED BEHIND CENTER CAP ON FRONT OF UNIT