



### 2-Wire Panel Rail Mount Universal Temperature/Process Transmitters

#### ETR Specifications

Parameter	ETR1 Non-Isolation	ETR2 Isolation	ETR3 High Precision Isolation
Typical Accuracy:	±0.15% of span	±0.10% of span	±0.05% of span
Galvanic Isolation:	No	1500 Vac, 1 min.	3750 Vac, 1 min.
Thermocouple Types:	J, K, E, B, C, L, N, R, S, T, U		
RTD Types, 3 & 4 wire:	PT100 IEC α=0.00385, PT1000 IEC α=0.00385 and others; Consult Tempco		
Input mV:	N/A	-10 to +500 mV	-10 to +500 mV
Potentiometer / Resistance:	N/A	3/4 wire, 0-2000 Ω	3/4 wire, 0-2000 Ω
Maximum T/C Wire Resistance:	500 Ω	500 Ω	500 Ω
Power Supply:	8 to 32 Vdc	8 to 30 Vdc	7.5 to 36 Vdc
Output	4 to 20mA, 20-4mA	4 to 20mA, 20-4mA	4 to 20mA, 20-4mA
Linearity Thermocouple:	±0.2%	±0.2%	±0.1%
Linearity RTD:	±0.1%	±0.1%	±0.05%
Sensor Break Monitoring:	Upscale or Downscale, Programmable		
Minimum Span Calibration			
T/C:	2 mV	2 mV	2 mV
RTD:	18°F/10°C	18°F/10°C	18°F/10°C
Potentiometer:	N/A	10 Ω	10 Ω
Temperature Operation & Storage:	-4° to +158°F/-20° to +70°C		
Relative Humidity:	0 to 95%, non-condensing		
Mounting:	DIN, 35 mm (for DIN rail see page 13-95)		
Protection: Housing/Terminals:	IP 20	IP 20	IP 20

#### Common Pre-Programmed Rail Mount Temperature Transmitters

Part Number	Version/ Isolation	Input	Range		Unit
			Zero	Span	
ETR20101	ETR1/no	K tc	0	200	°F
ETR20102	ETR1/no	J tc	0	200	°F
ETR20103	ETR2/yes	RTD	0	200	°F
ETR20104	ETR1/no	K tc	0	500	°F
ETR20105	ETR1/no	J tc	0	500	°F
ETR20106	ETR2/yes	RTD	0	400	°F
ETR20107	ETR1/no	K tc	0	200	°C
ETR20108	ETR1/no	J tc	0	200	°C
ETR20109	ETR1/no	K tc	0	400	°C
ETR20110	ETR1/no	J tc	0	400	°C
ETR30002	ETR3/yes	K tc	0	500	°F
ETR30003	ETR3/yes	J tc	0	500	°F
ETR30004	ETR3/yes	RTD	0	400	°F
ETR30005	ETR3/yes	K tc	0	200	°C
ETR30006	ETR3/yes	J tc	0	200	°C
ETR30007	ETR3/yes	RTD	0	200	°C



**Note:** For dimensions and wiring information, see page 12-49.

#### Un-Programmed Rail Mount Transmitters

**ETR20001** For Non-Isolated version  
**ETR20002** For Isolated version  
**ETR30001** For Isolated High Precision version

#### Universal Field Programming Kit

For programming ETR30001 DIN rail mount Isolated High Precision transmitters and all other Tempco transmitters for sensor type and range. Includes USB Interface and, all required cables and software. Includes hard carrying case. Connects to a USB port on the PC. Compatible with 32 or 64 bit Windows XP (SP2+), Vista, Windows 7, 8, 8.1, or 10.

Part Number: **ETM90006**

#### Lite Field Programming Kit

For programming ETR20001, ETR20002, DIN rail mount non-isolated and isolated transmitters for sensor type and range. Includes USB Interface and all required cables and software. Includes storage bag. Connects to a USB port on the PC. Compatible with 32 or 64 bit Windows XP (SP2+), Vista, Windows 7, 8, 8.1, or 10.

Part Number: **ETM90007**

*All Items Available from Stock*

### Ordering Information

Order a common unit by part number from the table or create an ordering code by filling in the boxes with the appropriate number and/or letter designation for your requirements and a part number will be assigned, or choose a pre-assigned configuration.

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).