

2-Wire Miniature Universal Temperature/Process Transmitters

ETM Specifications

Parameter	ETM1 Non-Isolation	ETM2 Isolation	ETM3 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 $\alpha=0.00385$, PT1000 IEC $\alpha=0.00385$ 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:	6.5 to 36 Vdc	6.5 to 36 Vdc	6.5 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:	-40° to +185°F/-40° to +85°C		
Relative Humidity:	0 to 95%, non-condensing		
Mounting:	DIN B connection head or larger		
Protection: Housing/Terminals:	IP 65/IP 00	IP 50/IP 10	IP 50/IP 10

Common Pre-Programmed Miniature Temperature Transmitters

Part Number	Version/ Isolation	Input	Range		Unit
			Zero	Span	
ETM20103	ETM1/no	K tc	0	200	°F
ETM20104	ETM1/no	J tc	0	200	°F
ETM20105	ETM2/yes	RTD	0	200	°F
ETM20106	ETM1/no	K tc	0	500	°F
ETM20107	ETM1/no	J tc	0	500	°F
ETM20108	ETM2/yes	RTD	0	400	°F
ETM20109	ETM1/no	K tc	0	200	°C
ETM20110	ETM1/no	J tc	0	200	°C
ETM20111	ETM1/no	K tc	0	400	°C
ETM20112	ETM1/no	J tc	0	400	°C
ETM30003	ETM3/yes	K tc	0	500	°F
ETM30004	ETM3/yes	J tc	0	500	°F
ETM30005	ETM3/yes	RTD	0	400	°F
ETM30006	ETM3/yes	K tc	0	200	°C
ETM30007	ETM3/yes	J tc	0	200	°C
ETM30008	ETM3/yes	RTD	0	200	°C



Note: For dimensions and wiring information, see page 12-48.

All Items Available from Stock

Un-Programmed Miniature Transmitters

ETM20001 For Non-Isolated Version
ETM20002 For Isolated Version
ETM30002 For High Precision Isolated Version

Universal Field Programming Kit

For programming ETM30002 miniature head mounted 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 ETM20001, ETM20002, miniature head mounted 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**

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.