

## Temperature Displays

### Loop Powered (4-20mA) LCD Temperature/Process Indicator in Standard and Heavy Duty Connection Heads

The EMT1 & EMT2 are digital indicators for installation directly in a 4-20mA signal loop without the requirement of external power.

It is provided in a sensor connection head, ready for attachment to a thermowell or industrial sensor assembly.

The indicator is equipped with high contrast easy-to-read LCD digits.

Scaling the display is easily accomplished, without a reference signal, by three push buttons for any values between -1999 and 9999.



Shown with TC Assembly (not included)

EMT10001



#### Design Features:

- \* Installation directly in a 4-20mA signal loop without the need for an external power supply.
- \* Works in conjunction with an ETM In-Head transmitter, sold separately
- \* Minimal voltage drop
- \* High contrast, 4-digit LCD display
- \* Simple push-button scaling without a reference signal
- \* Any range between -9999 and 9999 for the 4-20mA input
- \* Labels for different engineering units are included
- \* Typical accuracy of  $\pm 0.1\%$  allows for high precision readout
- \* HART transparent
- \* NEMA 4X / IP65 / IP66 protection for display housings

#### Specifications

	ETM1	ETM2
<b>Input current</b>	4 - 20 mA	
Operating range	3.8 - 22 mA	3.5 - 30 mA
<b>Voltage drop</b>	2.5 Vdc	1.5 Vdc
<b>Indication</b>		
Display	Black LCD with 4 digits include minus sign	
Digit height	12 mm	12.7 mm
Decimals	Selectable, 0 to 3	
Engineering units	Set of labels included	
<b>Response time</b>	Approx. 0.5 sec.	0.25 to 2 sec.
<b>Scale setting</b>	3 push buttons	
<b>Operating Temperature</b>	ETM1: -4 to +158°F / -20 to +70°C ETM2: -13 to +158°F / -25 to +70°C	
<b>Typical Accuracy</b>	$\pm 0.1\%$	0.05%
<b>Protection</b>	NEMA 4X / IP 65	NEMA 4X / IP 66 FM/CSA Class 1, Div 1 & 2
<b>Wire Connection</b>	16 ga. or smaller	
<b>Mounting</b>	Process: 1/2"-14 NPT Conduit: 3/4"-14 NPT	3/4"-14 NPT x 3

#### Ordering Information

Order by the Part Number EMT10001 or EMT20001.

**Standard lead time is stock to 2 weeks.**



#### Note:

The in-head temperature transmitters are sold separately; see page 12-44.

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