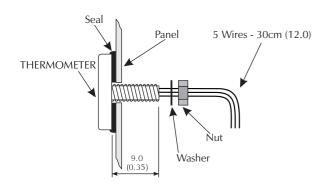
EMT 1900 is an easy to mount LCD digital panel meter. The module can measure ambient temperature via a built-in sensor and outside temperature via an external sensor (not supplied). The module uses NTC temperature sensors to ensure high accuracy over a wide temperature range. To mount the module, the user need only drill a single $5.5 \, \mathrm{mm} \, / \, \, /_{32}$ hole in the panel. The module is fitted to the panel by locating its screw threaded stud through the hole, fitting the washer and tightening the nut provided. The module's connecting wires pass through the hollow stud into the target application, where they can be easily plugged or soldered into place. A rubber seal is included, providing splashproof protection for the unit when fitted to the meter during installation.

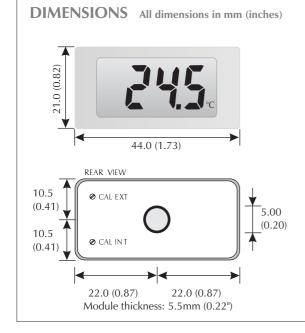
- Single Hole Mounting
- 4 Measurement Ranges
- 12.5mm / 0.5" LCD Digit Height
- **Compatible** with $10k\Omega$ NTC Sensors
- 5-Wire Connection
- Splashproof





Easy Mounting	g Thermo	meter		Stock Number EMT 1900		
Specification			Min.	Тур.	Max.	Unit
Measurement	°C rang	ge Internal Sensor	-10		+50	°C
ranges	°F rang	e Internal Sensor	+14		+122	°F
	°C rang	ge External Sensor	-20		+220	°C
	°F rang	e External Sensor	-4		+428	°F
Resolution Internal Sensor				0.5 (1)		°C (°F)
		-20 to +140°C		1 (2)		°C (°F)
Resolution External Sensor		+140 to +170°C		2 (4)		°C (°F)
		+170 to +220°C		5 (10)		°C (°F)
Accuracy*		°C range Bath Sensors		1		°C (±2 count)
		°F range B ath Sensors		2		°F (±4 count)
Sample rate				3		sample/sec
Operating temperature range			-10		+50	°C
Supply voltage**			4		28	V d.c.
Supply current				1		mA

- Using external NTC sensor with 10kΩ @ 25°C and a 25 to 85°C Beta value of 3977, for example: BC Components 2322-640-73103. The module may require recalibration.
 To ensure maximum accuracy, recalibrate periodically. Calibrate the module at top end of measurement range.
- ** Do not apply more than 28V, as this may damage the meter.





Underrange display



Overrange display

FITTING THE EMT 1900

Drill a 5.5mm/ $^{7}/_{32}$ " hole in the panel. Fit seal to the rear of the module. Fit the module to the panel by passing its screw threaded stud and the wires through the hole, fitting the washer and tightening the nut provided. Take care not to trap any of the connecting wires. Do not overtighten the nut as this may damage the meter.



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0.	BLACK	0V	Negative supply voltage to the module.
1.	BROWN	NTC	Connection for external $10k\Omega$ NTC sensor.
2.	RED	V+	Positive supply voltage to the module.
2	OPANICE	INIT/EVT	Leave floating to display internal concer tom

3. ORANGE INT/EXT Leave floating to display internal sensor temperature.

Connect to 0V to display external sensor temperature.

Lange floating to colore &Company external sensor tempera

4. YELLOW °C/°F Leave floating to select °C measurement range.

Connect to 0V to select °F measurement range.

SAFETY

As the NTC temperature sensor is a passive device, no voltages should be applied to the input terminals of the EMT 1900. The user must ensure that the incorporation of the meter into the user's equipment conforms to the relevant sections of BS EN 61010 (Safety Requirements for Electrical Equipment for Measuring, Control and Laboratory Use).

