www.tempco.com

Temperature Transmitters

2-Wire Miniature Universal Temperature/Process Transmitters

ETM1   **ETM2**   **ETM3**

PROGRAMMABLE
in the field with your PC and easy to use software.
Can be ordered pre-programmed from Tempco.

Temperature transmitters are used for a variety of reasons. The use of temperature transmitters can eliminate the need for long costly runs of thermocouple wire with less expensive copper signal wire. When the environment is electrically noisy, sending a 4-20 mA signal to the control panel reduces the chance of error.

Design Features:

✳ *Three levels of accuracy: ETM1—±0.15% of span*
                                    ETM2—±0.10% of span
                                    ETM3—±0.05% of span
✳ *Accepts 11 thermocouple types and 3- or 4-wire RTD sensors*
✳ *Field programmable with easy to use Windows®-based configuration software and a PC*
✳ *Sensor break monitoring, programmable for upscale or downscale*
✳ *Full access to all features while in operation*
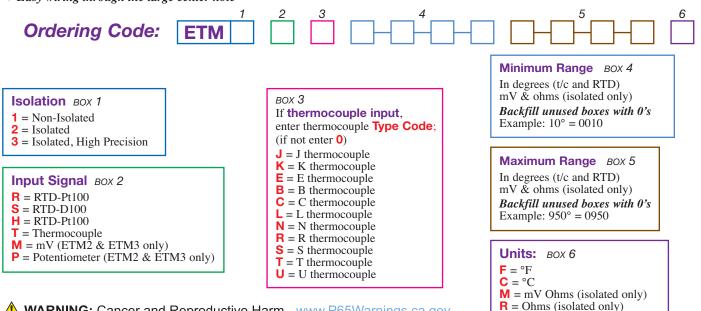✳ *Temperature linear output*
✳ *NAMUR-compliant*
✳ *Configuration, editing & reading without external power*
✳ *Easy wiring through the large center hole*

The **Tempco ETM Series** of 2-wire transmitters are offered in isolated, non-isolated and high precision isolated versions. They are designed to fit in a standard aluminum, iron or plastic industrial connection head, DIN size B or larger.

Additional Design Features for the Isolated Versions

✳ *Fully universal, linearized and isolated 3/4 wire RTD, T/C, mV and Ohm*
✳ *Sensor and system error correction*
✳ *Low sensor isolation detection*
✳ *Simplified loop check up with calibration output*

The **ETM Transmitters** are built using surface mount components and employ digital technology with non-volatile memory to retain the configuration after programming and the cable is removed.

Ordering Code: ETM ☐ ☐ ☐ ☐—☐—☐—☐ ☐—☐—☐—☐ ☐
             1 2 3   4   5   6

Minimum Range *BOX 4*
In degrees (t/c and RTD)
mV & ohms (isolated only)
Backfill unused boxes with 0's
Example: 10° = 0010

Isolation *BOX 1*
1 = Non-Isolated
2 = Isolated
3 = Isolated, High Precision

Input Signal *BOX 2*
R = RTD-Pt100
S = RTD-D100
H = RTD-Pt100
T = Thermocouple
M = mV (ETM2 & ETM3 only)
P = Potentiometer (ETM2 & ETM3 only)

BOX 3
If **thermocouple input**,
enter thermocouple **Type Code**;
(if not enter **0**)
J = J thermocouple
K = K thermocouple
E = E thermocouple
B = B thermocouple
C = C thermocouple
L = L thermocouple
N = N thermocouple
R = R thermocouple
S = S thermocouple
T = T thermocouple
U = U thermocouple

Maximum Range *BOX 5*
In degrees (t/c and RTD)
mV & ohms (isolated only)
Backfill unused boxes with 0's
Example: 950° = 0950

Units: *BOX 6*
F = °F
C = °C
M = mV Ohms (isolated only)
R = Ohms (isolated only)

⚠ **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

View Product Inventory @ www.tempco.com