Temperature Transmitters

2-Wire Panel Rail Mount Universal Temperature/Process Transmitters

Since 1972

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

ETR1

ETR2

Design Features:

✻ *Two levels of accuracy: ETR1—±0.15% of span*
                ETR2—±0.10% 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 with captive clamp style wire connections*

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.

The **Tempco ETR Series** of 2-wire transmitters is offered in non-isolated and isolated versions. They are designed to fit directly on a standard 35 mm DIN rail.

Additional Design Features for the Isolated Version

✻ *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 **ETR 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:

ETR	1	2	3	4	5	6

Isolation *BOX 1*

1 = Non-Isolated
2 = Isolated

Input Signal *BOX 2*

R = RTD-Pt100
S = RTD-D100
H = RTD-Pt100
T = Thermocouple
M = mV (ETM2 only)
P = Potentiometer (ETR2 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

Minimum Range *BOX 4*

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

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