

TEXMATE

UM-35J & UM-35K

Thermocouple Temperature Meters
3 1/2 Digit with 0.56" or 0.8" LEDs
in a Traditional NEMA Style Case

Low cost utility, J or K thermocouple temperature meters with 1° resolution pre-calibrated in °F or °C.



0.56"
LEDs



0.8"
LEDs

General Features

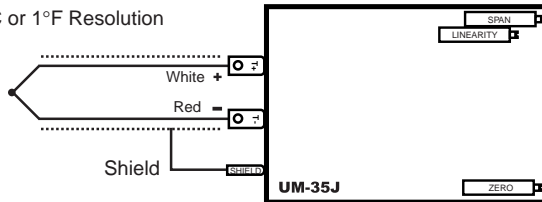
The UM-35J and UM-35K are economical thermocouple input temperature meters with a resolution of 1°. The meters are ordered factory calibrated for either a °F or °C indication. Automatic cold junction compensation, Thermocouple Break Detection, Display Hold and Display Test functions are provided as standard features.

The standard meter is provided with TB-KIT screw terminal blocks and insulated quick-disconnects. For the greatest convenience and ease of use, order the optional preconfigured Push-On screw terminal connectors. (see Push-On Screw Terminals and Ordering Information)

Typical Application Connections

Temperature Measurement with J Thermocouple

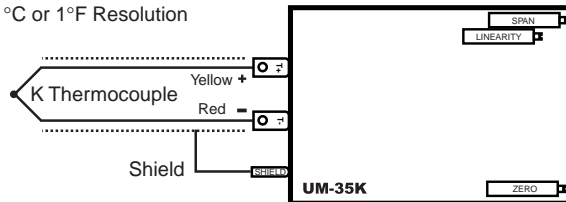
1°C or 1°F Resolution



Grounded or Ungrounded thermocouples may be used.

Temperature Measurement with K Thermocouple

1°C or 1°F Resolution



Grounded or Ungrounded thermocouples may be used.

Compatibility

The UM-Series NEMA case style is complementary to Texmate's Classic RP-Series. For economy, each UM model is dedicated to a specific application. UMs are ideal for upgrading or replacing the traditional USA NEMA case panel meters presently in use.

Traditional
NEMA
STYLE USA
CASE

Specifications

Input Configuration:Differential

Full Scale Ranges:.....UM-35JC 0 to 760°C
UM-35JF 0 to 1400°F
UM-35KC 0 to 1260°C
UM-35KF 0 to 1999°F

Lead Resistance Effects: ..20µV per 10Ω of lead resistance

Cold Junction

Compensation:.....Automatic ±0.1°C/°C (Cal. @25°C)

Input Protection:25V AC/DC

A/D Converter:12 Bit Dual Slope

Conformity Error

(at 25°C):UM-35JC ±(2°C + 1 digit) typical
UM-35JF ±(4°F + 1 digit) maximum
UM-35KC ±(3°C + 1 digit) typical
UM-35KF ±(5°F + 1 digit) maximum

Temperature Coefficient: ..100ppm/°C (Typical)

Warm Up Time:.....Two minutes to specified accuracy

Conversion Rate:3 readings per second

Display:0.56" hi efficiency Red or optional Green LEDs. Display Hold & Display Test are provided.

Polarity:.....Bipolar. Assumed positive, displays negative

Overrange/ Open

Thermocouple Indication:..Most significant "1" digit is displayed with all other digits blank

Power Supply (std):120/240V AC, 50/60/400 Hz. approx 1.5W.

(Optn) VO-DC/ISOIsolated Switcher 9 to 36V DC/12 to 24V AC

(Optn) VO-24VIsolated Transformer 24V AC ±10%

(Optn) VO-5V DCNon-isolated 5V DC ±10%

Operating Temperature: ..-10 to 50 °C

Storage Temperature:.....-20 to 70 °C.

Relative Humidity:95% (non condensing)

Case Dimensions:Bezel 4.06"Wx1.89"H (102.7Wx47.9Hmm)
Depth behind bezel 3.64" (92.22 mm) Plus
0.5 to .9" (12.7 to 22.8mm) depending on connector used.

Weight:.....10 oz., 13 oz when packed.