



DU-Series



TEXMATE

DU-35J & DU-35K

**Thermocouple Temperature Meter
3 1/2 Digit with 0.56" LEDs
in a 1/8 DIN Case**

Economical J or K Thermocouple Temperature Meters pre-calibrated °C or °F.

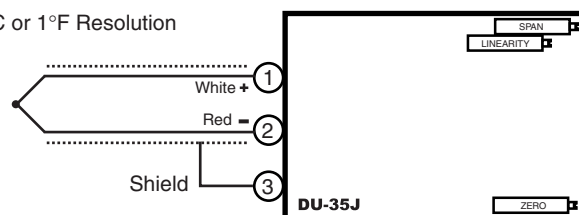
General Features

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

Typical Application Connections

Temperature Measurement with J Thermocouple

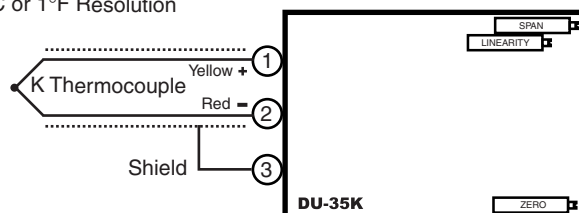
1°C or 1°F Resolution



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 DU-Series have a matching DIN case style that is complementary to the Lynx, Leopard and Tiger family of meters. DU-Meters are the OEM's choice for economical switchboard and process indication. For economy, each model is dedicated to a specific application and designed for quick and easy installation.



Specifications

Input Configuration:Differential

Full Scale Ranges:.....DU-35JC 0 to 760°C
DU-35JF 0 to 1400°F
DU-35KC 0 to 1260°C
DU-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):.....DU-35JC ±(2°C + 1 digit) typical
DU-35JF ±(4°F + 1 digit) maximum
DU-35KC ±(3°C + 1 digit) typical
DU-35KF ±(5°F + 1 digit) maximum

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

Warm Up Time:.....One minute 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

Decimal Selection:.....Header under face plate, X•X•X•X•

Overrange/ Open

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

Power Supply (std):120/240V AC, 50/60 Hz. approx 2.5W.

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

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

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

Operating Temperature:-10 to 50 °C

Storage Temperature:-20 to 70 °C

Relative Humidity:95% (non-condensing)

Case Dimensions:.....1/8 DIN, Bezel: 96x48mm (3.78"x1.89")
Depth behind bezel 117 mm (4.61") plus
11.8mm (0.47") for Right-angled
Connector or 20mm (0.79") for Straight-
through Connectors.

Weight:.....11 oz., 14 oz when packed

DU-Series, the OEMs choice for switchboard and process indication

DU-35AC11/5AC amps, Scaled RMS. (1 or 5 Amp Internal shunt), 3.5 digit
DU-35ACIRMS1/5AC amps, True RMS. (1 or 5 Amp Internal shunt), 3.5 digit
DU-40AC11-5AC amps, Scaled RMS. (1 or 5 Amp Internal shunt), 4 digit
DU-35ACAC volts, Scaled RMS. 199.9/700V AC Header Selectable Ranges, 3.5 digit
DU-35ACRMSAC volts, True RMS 199.9/700V AC Header Selectable Ranges, 3.5 digit
DU-40ACAC volts, Scaled RMS. 700.0V AC full scale, 4 digit
DU-35HZ15.0Hz to 199.9Hz or 15/500Hz. Up to 700V AC input, 3.5 digit
DU-35DC volts ±2V/±20V/±200V Header Selectable Ranges, 3.5 digit
DU-35MVDC mV ±50mV, ±100mV, ±200mV Header Selectable Ranges, 3.5 digit

DU-45DC volts ±2V/±20V/±200V Header Selectable Ranges, 4.5 digit
DU-45MVDC mV ±50mV/±100mV/±200mV Header Selectable Ranges, 4.5 digit
DU-35CLProcess 4 to 20mA (100.0), easily user scalable, 3.5 digit
DU-35CLEProcess 4 to 20mA (100.0) with 24V DC excitation, scalable, 3.5 digit
DU-45CLProcess 4 to 20mA (100.00), easily user scalable, 4.5 digit
DU-35PPressure, strain gage and load cell, 4 and 6 wire, 5V DC excitation, Header Selectable Sensitivity 2mV/V, 5mV/V, 10mV/V, 20mV/V, 3.5 digit
DU-35J/KOrder J or K Thermocouple and °C or °F, 3.5 digit
DU-35RTD100Ω platinum RTD, 3 or 4 wire, order °C or °F and 0.1° or 1°, 3.5 digit