

TEXMATE

DU-Series



DU-35CL

4-20mA Process Loop
3 1/2 Digit with 0.56" LEDs
in a 1/8 DIN Case

Easily user scaled, this meter is ideal for 4-20mA process loop measurement and indication in any engineering unit of measure.

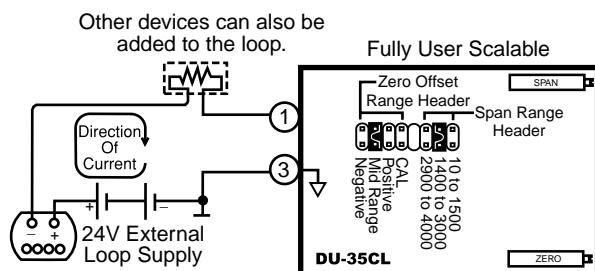
General Features

The DU-35CL is an economical 4-20mA process loop measuring meter. It is easily user adjustable to any reading between -1999 and +1999 without component changes. The unique set of Signal Conditioning Components incorporated in this meter, enables the use of a simple two step scaling and calibration procedure, which eliminates the back and forth interaction between zero and span settings, which is often required to calibrate less finely engineered products.

An economical option is the dummy (non-functional) right-hand-side zero which allows the DU-35CL to display of readings from -19990 to +19990 without going to the expense of a 4.5 digit meter. The apparent resolution with the dummy zero option would be 10 counts.

Typical Application Connections

4 to 20mA Process Loop Measurement



Order the DU-35CLE, if you require the loop excitation voltage to be supplied by the meter.

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:Series connection to 4-20mA process loop.

Full Scale Ranges:User adjustable to any scaling between -1999 to +1999.

Input Impedance:70Ω. Maximum 1.4V drop

A/D Converter:12 Bit Dual Slope

Accuracy:± (0.05% of reading + 3 digits)

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 and Display Test are provided.

Polarity:Bipolar. Assumed positive displays negative.

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

Over-range Indication: ...Most significant "1" digit and polarity signal are 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 DCNon-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-35AC1RMS1/5AC 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