



||EXMATE

DU-35

2V to 200V DC Meter 3 1/2 Digit with 0.56" LEDs in a 1/8 DIN Case

A low cost easily installed meter, for Switchboard and Process Indication of single, or differential DC voltage signals.

General Features

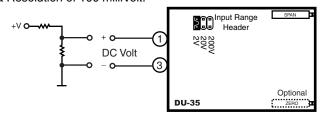
The DU-35 is an economical DC voltage measuring meter with three header selectable full scale ranges of 2V, 20V and 200V. This meter may be used to measure single-ended as well as differential signals and is easily scaled to any desired process engineering unit. After selecting a new range, re-calibration is required. Display Hold and Display Test functions are also provided.

An economical option is the dummy (non-functional) right hand side zero which allows the meter to display 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.

The standard meter has a high efficiency red LED display and user selectable AC power inputs of 100V AC to 120V AC or 200V AC to 240V AC are provided. An Optional 24V AC or an auto sensing isolated AC/DC 24V switching power supply can be ordered. (See ordering information)

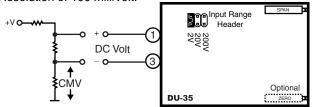
Typical Application Connections

DC Volts Single-ended measurement with a Resolution of 100 milliVolt.



DC Volts Differential measurement with

a Resolution of 100 milliVolt.



Max CMV (common mode voltage) is 50V.*
*Because CMV is common with meter ground, higher CMV inputs to a max of 1KV, require mechanical isolation of all contactable meter parts.

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:Single-ended, however isolated power supply enables differential measurements up to a maximum common mode of 50V.*

Full Scale Ranges:Three header selectable ranges of 2V, 20V,

and 200V DC full scale

Input Impedance:1M Ω (minimum) A/D Converter:12 Bit Dual Slope

Accuracy:±(0.05% of reading plus 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

Over-range Indication: ... The MSD digit 1 is displayed with all other

digits blank

Power Supply (std):120/240V AC, 50/60Hz. approx 2.5W. (Optn) VO-DC/ISOIsolated Switcher. 9 to 36V DC/12 to 24V AC

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

(Optil) VO-24VIsolated Hallslottlei 24V AO ±10/6

(Optn) VO-5V DCNon-isolated 5V DC $\pm 10\%$

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

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

DU-35ACI1/5	AC amps, Scaled RMS. (1 or 5 Amp Internal shunt), 3.5 digit
DU-35ACIRMS1/	'5 AC amps, True RMS. (1 or 5 Amp Internal shunt), 3.5 digit
DU-40ACI1-5	AC amps, Scaled RMS. (1 or 5 Amp Internal shunt), 4 digit
DU-35AC	AC volts, Scaled RMS. 199.9/700V AC Header Selectable Ranges, 3.5 digit
DU-35ACRMS	AC volts, True RMS 199.9/700V AC Header Selectable Ranges, 3.5 digit
DU-40AC	AC volts, Scaled RMS. 700.0V AC full scale, 4 digit
DU-35HZ	15.0Hz to 199.9Hz or 15/500Hz. Up to 700V AC input, 3.5 digit
DU-35	DC volts ±2V/±20V/±200V Header Selectable Ranges, 3.5 digit
DU-35MV	DC mV ±50mV , ±100mV, ±200mV Header Selectable Ranges, 3.5 digit

DU-45	DC volts ±2V/±20V/±200V Header Selectable Ranges, 4.5 digit
DU-45MV	DC mV ±50mV/±100mV/±200mV Header Selectable Ranges, 4.5 digit
DU-35CL	Process 4 to 20mA (100.0), easily user scalable, 3.5 digit
DU-35CLE	Process 4 to 20mA (100.0) with 24V DC excitation, scalable, 3.5 digit
DU-45CL	Process 4 to 20mA (100.00), easily user scalable, 4.5 digit
DU-35P	Pressure, 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/K	Order J or K Thermocouple and °C or °F, 3.5 digit
DU-35RTD	100 Ω platinum RTD, 3 or 4 wire, order °C or °F and 0.1° or 1°, 3.5 digit