



DU-Series



TEXMATE

DU-35AC

**199.9/700V AC Full Scale
3 1/2 Digit with 0.56" LEDs
in a 1/8 DIN Case**

Direct AC voltage measurement up to 700V AC with safe resistively isolated differential inputs, make this meter the OEM's choice for switchboard upgrades.

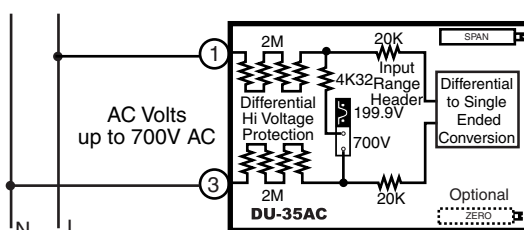
General Features

The DU-35AC is an economical, AC voltage measuring meter with two header selectable full scale ranges of 199.9V AC and 700V AC. The unique resistively isolated differential input of this meter allows safe measurement of phase to phase voltages. After selecting a new range, re-calibration is required. Display Hold and Display Test functions are also provided.

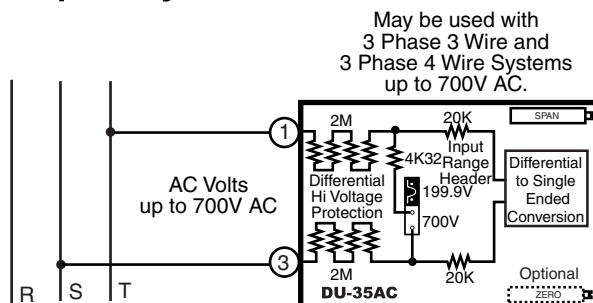
The standard meters have a high efficiency red LED display and user selectable AC power inputs of 100V AC to 120V AC or 200V AC to 240V AC are provided. An Optional 24V AC or an auto sensing isolated AC/DC 24V switching power supply can be ordered. (See ordering information)

Typical Application Connections

AC Voltage measurement in Single-phase Systems.



AC Phase to Phase Voltage measurement in Multi-phase Systems.



The unique differential input allows safe phase to phase AC line voltage measurements up to 700V AC.

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 auto zeroing AC to DC converter scaled in RMS. Inputs are resistively isolated to 1400V from internal ground of meter by 1.94MΩ, so that phase to phase measurements up to 700V AC can be safely made.

Full Scale Ranges:Two header selectable ranges of 199.9V AC and 700V AC full scale

Input Impedance:4MΩ (minimum)

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.

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

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%

(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:11oz., 14oz. when packed

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

DU-35AC1/5AC 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-40AC1-5AC 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