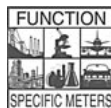




DU-Series



# TEXMATE

## DU-35ACI1 & DU-35ACI5

1 Amp and 5 Amp AC Meters  
3 1/2 Digit with 0.56" or 0.8" LEDs  
in a 1/8 DIN Case

Measuring AC current directly from industry standard 1 Amp and 5 Amp CTs, this meter is the OEM's choice for modern switchboard installation and upgrades.

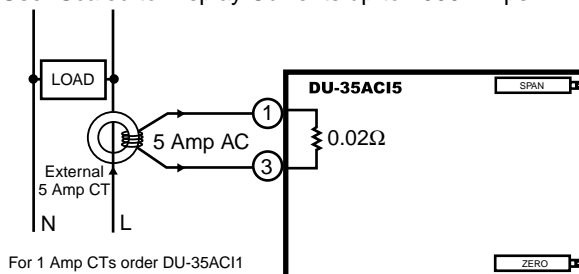
### General Features

The DU-35ACI1 and DU-35ACI5 are low cost, AC current measuring meters with a very low burden of 0.1VA and 0.5VA respectively. Their internal shunt provides for direct connection to 1A or 5A CT's (current transformers). No matter what the CT ratio, the 15 turn, infinitely adjustable Span potentiometer enables the user to easily scale the output to display almost any current value required.

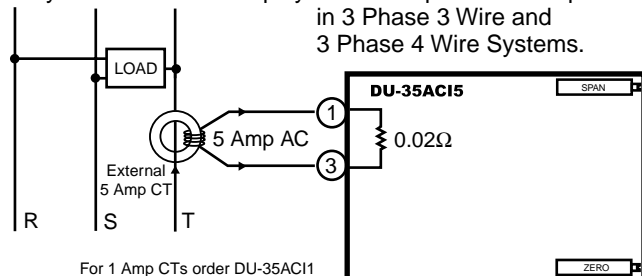
The DU-35ACI1 and DU-35ACI5 meters can withstand momentary over loads of up to 200 Amps (40 times input signal) for one second without developing an open circuit. Our unique differential AC measurement circuit provides high impedance to ground on both sides of the shunt.

### Typical Application Connections

#### AC Current measurement in Single-phase Systems. Easily User Scaled to Display Currents up to 1999 Amps.

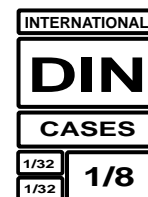


#### AC Current measurement in Multi-phase Systems. Easily User Scaled to Display Currents up to 1999 Amps in 3 Phase 3 Wire and 3 Phase 4 Wire Systems.



### 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:** .....Shunt input with differential auto zeroing  
AC to DC converter scaled in RMS.  
A Zero pot is provided to offset the displayed reading  $\pm 500$  counts.

**Input Impedance:** .....0.02 $\Omega$  for 5A CT. Burden is only 0.5VA  
0.1 $\Omega$  for 1A CT. Burden is only 0.1VA

**Full Scale Ranges:** .....1 Amp and 5 Amp Inputs can be scaled to any desired display value from 0 to 1999.

**A/D Converter:** .....12 Bit Dual Slope

**Accuracy:** ..... $\pm(0.05\%$  of reading plus 2 counts)

**Temperature Coefficient:** 100ppm/ $^{\circ}\text{C}$  (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/ISO .....Isolated Switcher. 9 to 36V DC/12 to 24V AC  
(Optn) VO-24V .....Isolated Transformer 24V AC  $\pm 10\%$   
(Optn) VO-5V DC .....Non-isolated 5V DC  $\pm 10\%$

**Operating Temperature:** ...-10 to 50  $^{\circ}\text{C}$

**Storage Temperature:**.....-20 to 70  $^{\circ}\text{C}$

**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-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  $\pm 2\text{V}/\pm 20\text{V}/\pm 200\text{V}$  Header Selectable Ranges, 3.5 digit  
DU-35MV .....DC mV  $\pm 50\text{mV}$ ,  $\pm 100\text{mV}$ ,  $\pm 200\text{mV}$  Header Selectable Ranges, 3.5 digit

DU-45 .....DC volts  $\pm 2\text{V}/\pm 20\text{V}/\pm 200\text{V}$  Header Selectable Ranges, 4.5 digit  
DU-45MV .....DC mV  $\pm 50\text{mV}/\pm 100\text{mV}/\pm 200\text{mV}$  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  $^{\circ}\text{C}$  or  $^{\circ}\text{F}$ , 3.5 digit  
DU-35RTD .....100 $\Omega$  platinum RTD, 3 or 4 wire, order  $^{\circ}\text{C}$  or  $^{\circ}\text{F}$  and 0.1 $^{\circ}$  or 1 $^{\circ}$ , 3.5 digit