



TEXMATE

DU-40ACI1 & DU-40ACI5

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

High resolution measurement of AC current directly from industry standard 1 Amp and 5 Amp CTs, make this meter the OEM's choice for switchboard and process indication.

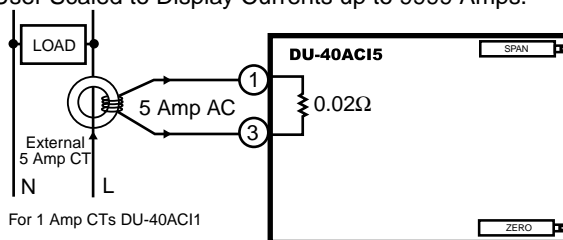
General Features

The DU-40ACI1 and DU-40ACI5 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.

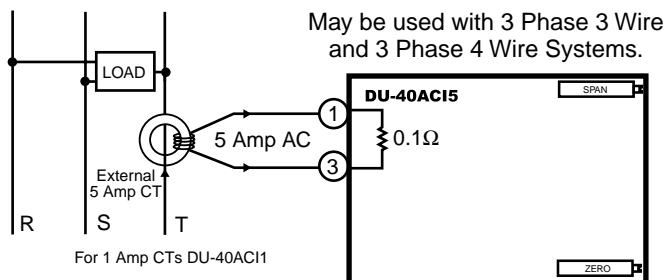
The DU-40ACI1 and DU-40ACI5 meters can withstand momentary over loads of up to 300 Amps (60 times input signal) for one second without developing an open circuit. Our unique differential AC measurement circuit provides high impedance to ground on both sides of the shunt.

Typical Application Connections

AC Current measurement in Single-phase Systems. Easily User Scaled to Display Currents up to 9999 Amps.



AC Current measurement in Multi-phase Systems. Easily User Scaled to Display Currents up to 9999 Amps.



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 ± 500 counts.
- Input Impedance:**0.02 Ω for 5A CT. Burden is only 0.5VA
0.1 Ω 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 9999.
- A/D Converter:**16 Bit Dual Slope
- Accuracy:** $\pm(0.05\%$ of reading + 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 & Display Test are provided.
- Decimal Selection:**.....Header under face plate, X•X•X•X•
- Over-range Indication:**...The display flashes "0000"
- 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 $\pm 10\%$
(Optn) VO-5V DCNon-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-35ACI1/5AC 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-40ACI1-5AC 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 $\pm 2\text{V}/\pm 20\text{V}/\pm 200\text{V}$ Header Selectable Ranges, 3.5 digit
- DU-35MVDC mV $\pm 50\text{mV}$, $\pm 100\text{mV}$, $\pm 200\text{mV}$ Header Selectable Ranges, 3.5 digit

- DU-45DC volts $\pm 2\text{V}/\pm 20\text{V}/\pm 200\text{V}$ Header Selectable Ranges, 4.5 digit
- DU-45MVDC mV $\pm 50\text{mV}/\pm 100\text{mV}/\pm 200\text{mV}$ 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 $^{\circ}\text{C}$ or $^{\circ}\text{F}$, 3.5 digit
- DU-35RTD100 Ω platinum RTD, 3 or 4 wire, order $^{\circ}\text{C}$ or $^{\circ}\text{F}$ and 0.1 $^{\circ}$ or 1 $^{\circ}$, 3.5 digit