DIGITAL PANEL METERS

DIGITAL PANEL METER

AC VOLTAGE



Reads to 700.0 Volts F.S.

DESCRIPTION MODEL DU40-AC

•The DU40 is a low cost AC voltage meter. The DU40-AC is designed to measure power line voltage up to 700.0Vac with 0.1Vac resolution.

DU40-AC SPECIFICATIONS

Input Configuration: Inputs resistively isolated to 1400V from internal ground of meter by 1.94 M Ω so that phase to phase measurements can be safely made.

Input Range	700.0Vac, 50-60Hz
Input Impedance	4.0 Μ Ω

AC CURRENT



Reads to 9999 Amps F.S.

DESCRIPTION MODEL DU40-ACI5

•The DU40-ACI5 is a low cost AC current meter. It has a built-in internal shunt that allows direct connection to a 5A CT (current transformer) without adding any other external features.

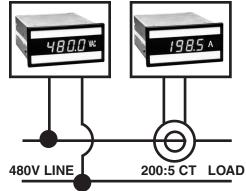
DU40-AC'5 PE IFICATIONS

Input Configura	ti 🖌	, Single-ended with provision to
		ading being displayed.
Full Scale	ge	To 9999 F.S. 5A CT input
Input Imp. da.		0.02Ω for 5A CT

MODEL DU40 COMMON SPECIFICATIONS

Accuracy	\pm (0.05% of reading + 3 digits)
Temp. Coefficient	
Conversion Rate	
Display	0.56" high efficiency LED display HOLD and TEST function
Decimals	User programmable to four positions.
	full scale on any range being used,all digits flash at the A/D conversion rate
Power Requirements	
Warm Up Time	One minute to specified accuracy
Operating Temp	-10°C to +50°C

TYPICAL APPLICATON



CALIBRATION PROCEDURE DU-40ACI5 ONLY

- 1. Apply an input of 0Aac to the meter by shorting the inputs.
- 2. Adjust the Zero Offset Pot until the meter reads 0000.
- 3. Connect the secondary of the current transformer (CT) to the meter inputs, and apply the full scale current. (5Amps)
- 4. Adjust the Span Pot until the meter displays the required reading. (Primary ratio of CT)
- 5. Place Decimal Point Jumper in proper position for CT Ratio.
- 6. The DU40-ACI5 is now calibrated and ready for use.

NOTE: Unit comes prescaled when CT Ratio is provided.

ORDERING INFORMATION				
	4 digit red LED for direct connection to 5A secondary CT			
DU40-AC	4 digit red LED factory calibrated for 700.0VAC			

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FLEX-CORE[®]

Div. Morlan & Associates, Inc.

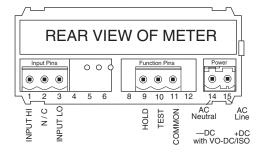
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MODEL DU40

CONNECTOR PINOUT

The Models DU40-AC and DU40-ACI5 interconnects by means of standard screw terminal connectors.



SETUP INSTRUCTIONS

Opening Back Panel

To open back panel, insert a flat screwdriver or similar instrument in both slots on the top of the case and pry open.

Decimal Point Selection

Decimal selection is made on the front of the display board. To select move header to desired position.

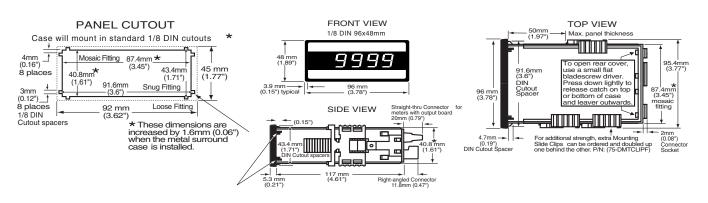
Selecting Power Voltage

See Pins 14 & 15 in Pin Out descriptions. Reverse this for higher or lower power inputs. (110/120Vac or 200/240Vac only)

PIN-OUT DESCRIPTIONS

Pin 1Signal Input High	Signal input high to the meter.		
Pin 3Signal Input Low	Signal low in, ut for the meter.		
Pin 9Hold Reading	If this provide the meter will operate in		
	Hold Est Common Pin 11, the meter will latch up. A/D		
	e oversions will continue, but the display will not be updated until Pin 9 is disconnected from Hold/Test		
Pin 10Display Test	Common Pin 11. All numeric display segments will light up when this pin is		
Pin 11Hold/Test Common	connected to the Hold/Test Common Pin 11 The Hold and Display Test Pins have to be connected to		
	this pin to activate their respective functions. These pins are the Power Input pins for the meter. All		
DU-Series meters sold in North method are preconfigured at the factory for 100/120Vac operation. To reconfigure for 200/240Vac operation amplitude out the AC Power Voltage Selector located directly behind the transformer,			
turn it around and reinsert, into he socket so that "200/240Vac" is visible.			

CASE DIMENSIONS AND CUTOUTS



All Dimensions In Inches

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