

CROMPTON INSTRUMENTS DGU DIGITAL PANEL METER

AC VOLTAGE & CURRENT MODELS



RELEVANT STANDARDS AND TEST REPORTS

- EC 61326-1: 2005
- IEC 61010-1-2001
- CE
- UKCA

**Precise measurement of on-site
Current and Voltage - 96 x 48 mm**

KEY FEATURES

- Fast & Easy Installation
- True RMS measurements
- Programmable CT/PT Primary
- Programmable CT/PT Secondary
- Single phase, 3ph3wire or 3ph4wire Network
- Two auxillary power options
- 4 Digits ultra bright LED display
- Incase of power failure last screen is stored
- IP50 for front face (IP54 option)
- Low back depth

TE Connectivity's (TE) Crompton Instruments DGU Digital Panel Meters have been designed for industrial applications, where precise measurement of the on-site Current and Voltage is necessary. The meter can be used in a variety of applications including industrial automation and for laboratory uses.

The DGU Digital Panel Meter has a class accuracy of 0.5 and measures Voltage or Current in 3 phase 4 Wire, 3 phase 3 Wire and single phase networks replacing the need for multiple analogue panel meters.

Using two function keys it is possible to display various parameters in Current and Voltage DPM. These function keys are also used for Network selection, CT/PT Primary values and CT/PT Secondary values. The user can easily set the display in auto scrolling mode or fixed screen mode using front panel keys.

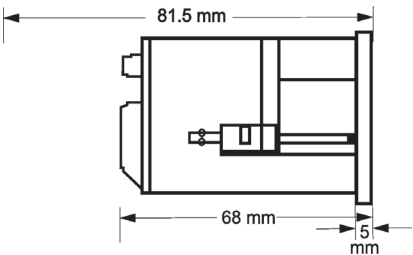
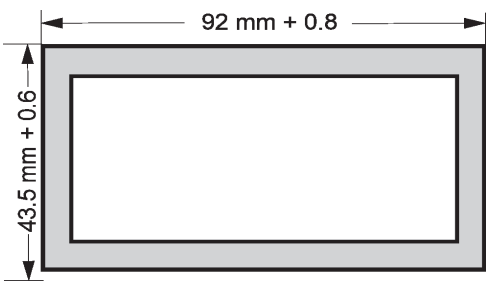
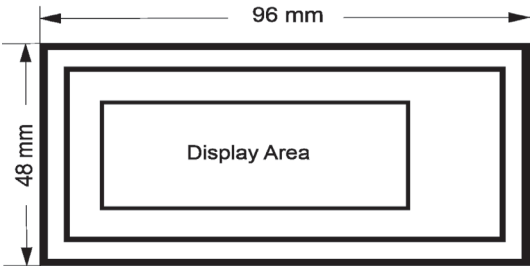
In case of power failure, the instrument memorizes the last screen stored. For every 1 min. the instrument stores the screen no. in the non-volatile memory.

The DGU Digital Panel Meter conforms to IP50 (for front face) & IP20 (for back), with an option for IP54 front.

TECHNICAL SPECIFICATIONS

Input Voltage:	
Nominal input voltage Ranges (AC RMS) (to be specified while ordering)	Phase -Neutral 57 - 288V L-N , Line-Line 100-500V L-L(For 3V) Phase -Neutral 57.5 - 300V L-N (For V) Phase -Neutral 600VL-N (Only for V(fixed))
Max continuous input voltage	120% of rated value
Nominal input voltage burden	< 0.3 VA approx. per phase.
	< 0.4 VA approx. (For 600VLN -1phase)
System PT primary values	100VLL to 999kVLL programmable on site for 3 - Phase Voltage (3V) 57.5VLN to 999kVLN programmable on site for 1 - Phase Voltage (V).
Input Current:	
Nominal input current ranges	1A or 5A AC RMS
System CT primary values	From 1A up to 999kA (for 1 or 5 Amp)
Max continuous input current	120% of rated value (optional 150% of rated value)
Nominal input current burden	< 0.3 VA approx. per phase
Overload Indication:	"-oL-" (If input is greater than 125% of secondary value for Voltage and 125% (optional 155%) of secondary value for current)
Auxiliary Supply:	
AC DC Auxiliary Supply	40-300V AC-DC (±5%) 20-40V AC / 20-60V DC
Frequency range	45 to 65 Hz
VA burden	< 3 VA Approx 1 VA Approx at 24V AC/DC
Overload Withstand:	
Voltage	2x rated value for 1 second, repeated 10 times at 10 second intervals
Current	4x rated value for 1 second, repeated 5 times at 5 min intervals
Operating Measuring Ranges:	
Voltage & Current Range	10 ... 120% of rated value
Frequency	45...65 Hz
Reference conditions for Accuracy:	
Reference temperature	23°C +/- 2°C
Input waveform	Sinusoidal (distortion factor 0.005)
Auxiliary supply voltage	Rated Value ±1%
Auxiliary supply frequency	Rated Value ±1%
Voltage Range	20...100% of Nominal Value
Current Range	10...100% of Nominal Value
Input Frequency	50 Hz / 60 Hz
Accuracy:	
Voltage	±1.0% of Nominal value (Optional ±0.5% Available)
Current	±1.0% of Nominal value (Optional ±0.5% Available)
Safety	
Pollution degree:	2
Installation category:	III
High Voltage Test	2.2 kV AC, 50Hz for 1 minute.
Environmental:	
Operating temperature	0 to +55 °C
Storage temperature	-25 °C to +70 °C
Relative humidity	0...90% non condensing
Shock	15g in 3 planes
Vibration	10...55Hz, 0.15mm amplitude
Enclosure	
Front	IP 50(IP 54 on request)
Back	IP 20

DIMENSIONAL INFORMATION

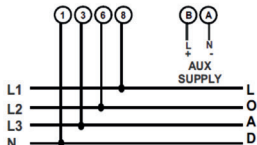


DiMENSIONS	
Bezel size (DIN 43 718)	48 mm x 96 mm.
Panel cut-out	43,5 +0.6= mm x 92 + 0.8 mm
Overall depth	68 mm
Weight	250 gm Approx

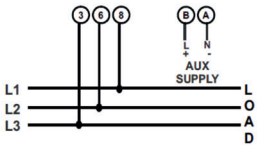
PARAMETERS - DGU-1V	
Network type	Parameter
1 Phase 2 wire	Phase - Neutral Voltage VL

PARAMETERS - DGU-1A	
Network type	Parameter
1 Phase 2 wire	Phase current IL

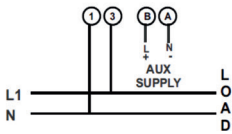
WIRING DIAGRAMS



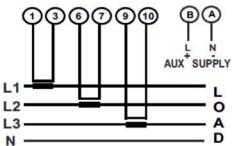
Connection For 3V
3PH - 4 Wire Network



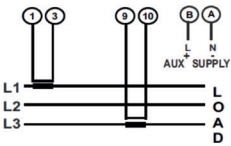
Connection For 3V
3PH - 3 Wire Network



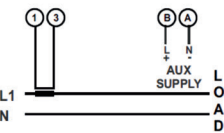
Connection For V
1PH - 2 Wire Network



Connection For 3A
3PH - 4 Wire Network



Connection For 3A
3PH - 3 Wire Network



Connection For A
1PH - 2 Wire Network

ORDERING INFORMATION

EXAMPLE PART NUMBER: 262-DGU-3-V-8B-H-5-0

= 96 x 96mm DGU Digital Meter - 3 Phase - AC Voltmeter - Input 57.5-300V L-N - Power Supply 40-300V AC/DC - Class 0.5 - Standard IP50

PRODUCT NUMBERS - HOW TO ORDER - CHOOSE A NUMBER OR LETTER FROM THE FOLLOWING COLUMNS						
	SYSTEM	TYPE	INPUT	POWER SUPPLY	ACCURACY CLASS	IP PROTECTION
262-DGU = 96x48mm	1 = 1 Phase	V = AC Voltmeter	8A = 600V L-N (Fixed input)	H = 40-300V AC/DC	5 = Class 0.5	0 = Standard IP50
	3 = 3 Phase	A = AC Ammeter	8B = 57.5-300V L-N (1 Phase Onsite programmable)	L = 20-40V AC / 20-60VDC		1 = Optional IP54 (On request chargeable)
			8C = 100-500V L-L (3 Phase Onsite programmable)			
			8D = 1/5A Onsite programmable)			

EXAMPLE PART NUMBER: 262-DGU-1-A-8A-L-5-1

= 96 x 48mm DGU Digital Meter - 1 Phase - AC Ammeter - Input 600V L/N (Fixed) - Power Supply 20-40V AC / 20-60V DC - Class 0.5 - IP54

PRODUCT NUMBERS - HOW TO ORDER - CHOOSE A NUMBER OR LETTER FROM THE FOLLOWING COLUMNS						
	SYSTEM	TYPE	INPUT	POWER SUPPLY	ACCURACY CLASS	IP PROTECTION
262-DGU = 96x48mm	3 = 3 Phase	A = AC Ammeter	8B = 57.5-300V L-N (1 Phase Onsite programmable)	L = 20-40V AC / 20-60VDC		1 = Optional IP54 (On request chargeable)
			8C = 100-500V L-L (3 Phase Onsite programmable)			
			8D = 1/5A (Onsite programmable)			
			8D = 1/5A (Onsite programmable)			

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