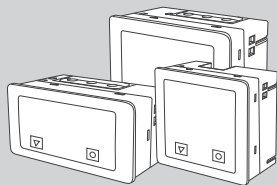


DPM series

AC single-phase and DC meter range

Quick installation guide



Safety precautions

- HAZARD OF ELECTRICAL SHOCK OR EXPLOSION**
- Use appropriate personal protective equipment (PPE) and follow safe electrical practices.
 - DPM meters should only be installed indoors by suitably trained persons.
 - Failure to observe precautions can result in serious or even fatal injury and equipment damage.
 - The equipment does not incorporate internal fuse. External fuse of rating 300V/ 0.5A must be incorporated for safety precaution under fault condition.

Box contents

- 1 AC single-phase or DC meter
- 2 mounting clamps
- 1 operating manual
- 1 parking terminal (Optional use *)

*Refer detailed user manual for more info

Mechanical

Pollution degree	2
Altitude (in meter)	≤ 2000
Torque (tightening screw)	0.5 Nm
Material	Flame retardant polycarbonate

Electrical

Wiring configuration	1 Phase 2 Wire (except for DC meter)	
Voltage	Current	
Measuring voltage range	20 V to 300 V AC (P to N)	Measuring current range
		50 mA to 6 A
Nominal voltage range (U _n)	57.5 V to 250 V (P to N) (50 / 60 Hz)	Nominal current range (I _n)
		1 A or 5 A
Over voltage	150% U _n continuous	Over load
		150% I _n continuous
Short time over current	120 A for 1 sec.	
Frequency meter range	45 to 65 Hz	
DC Voltmeter	0 to 250 V _{DC} , max: 120% of V _{DC}	
DC Ammeter	-150 mV..0..+150 mV via ext. shunt, Max: 120% shunt input	

Environmental

Auxiliary supply range	40 to 300 V AC (50 / 60 Hz) / DC
Burden	
Voltage circuit	<0.2 VA / phase
Current circuit	1 A : <0.1 VA / phase ; 5 A : <0.4 VA / phase
Auxiliary supply	<1.5 VA
Accuracy Class	
Voltage, current, active power	±0.5% Full scale
Frequency	±0.1 Hz
DC voltmeter, DC ammeter	±0.2% Full scale
Environmental	
Protection Degree	Front fascia: IP 54 default/ IP 65 optional through gasket, Terminal IP 20

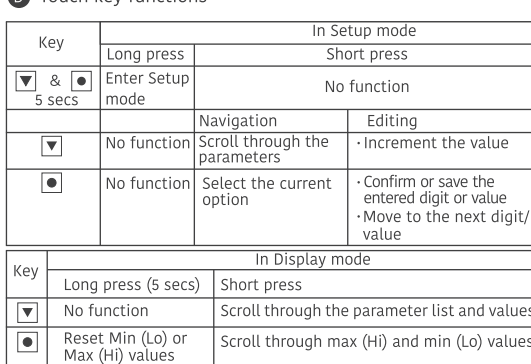
Display

Particulars	Single-line LED meter	Single-line LCD meter
Number of digits	4	5
Character size	H: 14.2 mm, W: 8.1 mm	H: 11 mm, W: 7 mm

Compliance

Safety and other standards	CE, EN/IEC 61010-1, IEC60529 EN/IEC 61010-2-030, IEC 61326
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Installation



Wire trimming information

Note: Recommended panel sheet thickness is 1.8 mm to 3.0 mm.

Display info

Setup menu

Touch key functions

Key	In Setup mode	In Display mode
Long press	Enter Setup mode	Scroll through the parameter list and values
Short press	No function	Scroll through max (Hi) and min (Lo) values
Navigation	Navigation	Navigation
Editing	Editing	Editing
Confirm or save the entered digit or value	Confirm or save the entered digit or value	Confirm or save the entered digit or value
Move to the next digit/ value	Move to the next digit/ value	Move to the next digit/ value

Mounting the meter with clamps

CT Pass through

LED display

LCD display

Analogue bar - Indicates load in %

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BGX701 - 200

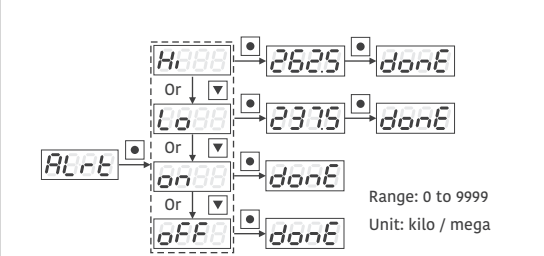
BGX701-200-R04

7.	PCHG	Password change	✓	✓	✓	✓
8.	SAVE	Save	✓	✓	✓	✓

For LED DC meter range

S.No	Configurable parameters	Description	Variants	
			V	I
1.	INP	Input range	✓	✓
2.	dSP	Display range	✓	✓
3.	ALrt	Alert setting	✓	✓
4.	UPdt	Display update time	✓	✓
5.	PCHG	Password change	✓	✓
6.	SAVE	Save	✓	✓

Set Alerts* (High and Low thresholds)



*The process to set the values is same as described in other configurations.
Note: Alerts are only displayed if configured as 'ON'.

View alerts

Hi limit (LED) 	Low limit (LED)
Hi limit (LCD) 	Low limit (LCD)

Note: High and Low alerts will be displayed continuously on screen till they are acknowledged by pressing or key. Thereafter, default display cycle will be displayed.

F Configurations (Single—line LED display)

Set meter configuration

LT: direct connected HT: PT(VT) connected

Set PT (VT) primary and secondary values (CT configuration is same as PT (VT))

Range PT (VT): Primary - 50 V to 2000kV (HT), Secondary - 200 V to 250 V (LT)/ 50 V to 250V (HT)
 Range CT: Primary - 1 A to 15000 A, Secondary - 1 A to 5 A in steps of one

Set power demand time (The process to configure Ampere demand (A.d) is similar to Power demand (P.d))

Range: 1 to 30 minutes
 - Indicates that the selected value can be changed to a higher or lower value

Set display update time

Range: 1 to 5 secs

I DC meter configurations (Single—line LED display)

Set start and end input range

Range

Voltage — Input start	0 V....249 V
Input end	1 V....250 V
Current — Input start	-150 mV....+149 mV
Input end	-149 mV....+150 mV

Set start and end display range

Range

Voltage — Display start	0 V....1999 kV
Display end	1 V....2000 kV
Current — Display start	-2000 kA....+1999 kA
Display end	-1999 kA....+2000 kA

1 Displays and alerts

View power demand (P.d) / Current demand (A.d)

A.d display is same as P.d display

View maximum (Hi) and minimum (Lo) values