DMTI DG Basic - LCD

Single & Three Phase Electronic Watt-Hour Meter **Basic - LCD**

Application

DIGITAL METER TECHNOLOGY INTERNATIONAL, Ltd produces **DMTI - DG (II) and (III) B Single and Three Phase Basic** electronic watt-hour meter, They adopt many advanced technologies of research and development, like microelectronic-techniques, specialized large-scale IC (integrated circuit), digital sampling and processing technology, SMT technique, and so on. Their technical performances completely conform to International Standards IEC 62053-21 for Class 1 single and three phase active energy meter. They can directly and accurately measure the load active energy consumption in the single and three phase AC networks of rated frequency 50Hz or 60Hz. The DG Basic have multiple types for option, to be suitable with the various market demands. They have features with excellent long-term reliability, small volume, light weight, perfect appearance, easy installation, etc.

Standard Features:

- ✓ 6+1 digits (999999.1kWh) LCD display.
- ✓ 35mm DIN standard rail installations in front of panel are available.
- ✓ 6 pole width (modulus 12.5mm) for single phase meter, and 10pole width (modulus 12.5mm) for three phase meter complying with Standards JB/T7121-1993.
- ✓ Single pole width (modulus 17.5mm) for Smallest single phase meter, complying with standards DIN43880.
- ✓ For Smallest single phase meter, automatic detection the direction of the flow of load current. And Instructions on LED (when display HELP 1 on LCD, that means the reverse of the flow of load current).
- ✓ Two or Four LEDs to indicate separately the power state (green) and the energy impulse signal (red).
- ✓ Measure the active energy consumption in one direction on single phase two wire, which is not related with the load current flow direction at all, complying with Standards IEC 62053-21.
- ✓ Equipped with a polarity passive energy impulse output terminal, conforming to Standards IEC 62053-31 and DIN 43864.
- ✓ Automatic detection for the load current flow direction and will be indicated by LED.
- ✓ Infrared carrier wave communication and RS485 serial port communication are available.

DMTI DG II-B LCD

Single Phase Basic LCD

DMTI DG II-BC LCD

Single Phase Basic Compact LCD

DMTI DG II-MC RS -LCD

Single Phase Basic Rs485 - LCD

DMTI DG III-B LCD

Three Phase Basic LCD

DMTI DG III-MC RS LCD

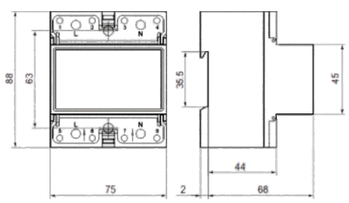
Three Phase Basic Rs485 - LCD

Electrical parameters:

DG II B LCD - Single Phase	
Nominal Voltage (Un)	220VAC
Operational Voltage	161 ~ 300VAC
Current	
Basic current (Ib)	5A / 10A / 20A
Maximum current (Imax)	32A / 50A / 100A
Operational current range	0.05Ib ~ Imax
Starting current range	0.004Ib
Internal Power consumption	≤ 2W / 10VA
DG III B LCD - Three Phase	
Nominal Voltage (Un)	3x220VAC / 380AC
Working Voltage Limit	70 ~ 130% Un
Current	
Basic current (Ib)	10A / CT
Maximum current (Imax)	50A / 100A / 5A
Starting current range	0.004Ib(Direct), 0.002 (CT)
Internal Power consumption	≤ 2W / 10VA / phase
Test Output flash rate	1600imp/kWh
Operational Frequency range	50Hz ±10%
Insulation Capabilities	
- AC Voltage withstand	4kV for 1 minute
- Impulse Voltage withstand	6kV - 1.2/50μs waveform
Performance Criteria	
Operating Humidity	≤ 85%
Operating temperature	-10°C to +50°C
Storange temperature	-30°C to + 65°C
Class	1

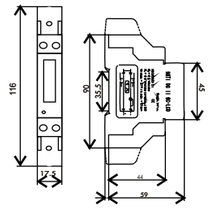
DMTI DG B LCD Specification

Dimensions:



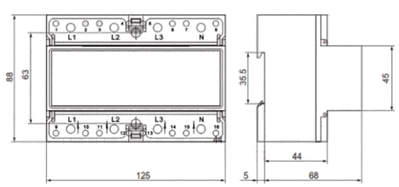
83mm (H) x 75mm (W) x 68mm (D)

DMTI DG II-B LCD



116mm (H) x 17.5mm (W) x 59mm (D)

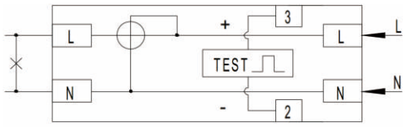
DMTI DG II-BC LCD



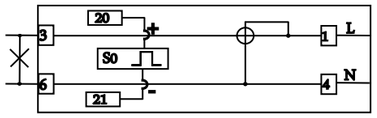
88mm (H) x 125mm (W) x 68mm (D)

DMTI DG III-B LCD

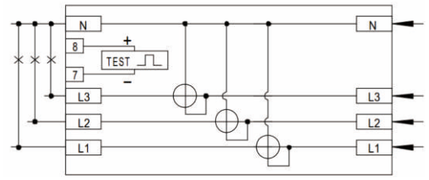
Wiring Diagram



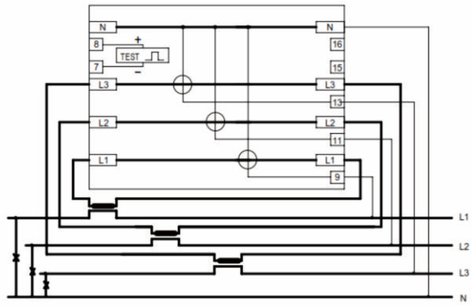
DMTI DG II-B LCD



DMTI DG II-BC LCD



DMTI DG III-B LCD- Direct Connection



DMTI DG III-B LCD- CT Connection

For further information, please contact:

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To get more than a meter