

DMTI DG II-PP

Single Phase Electronic Watt-Hour Meter IC - Card Prepayment

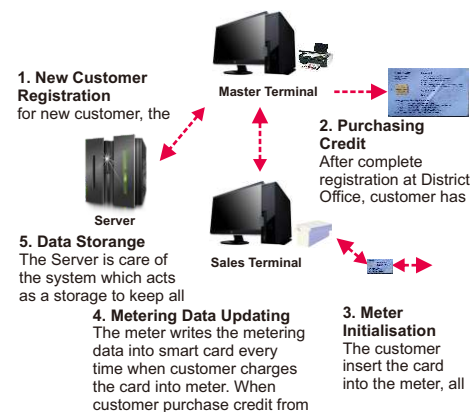
Application

DIGITAL METER TECHNOLOGY INTERNATIONAL, Ltd produces Prepaid watt-hour meter DMTI - DG II-PP single phase which is completely accord with technical specification of class of International Standard IEC62053-21 and IEC620532-11. This meter uses I card as media purchased electricity and will works as long as purchased electricity values available. The consumer must load IC card from Vending Machine provided by Management Building and then insert the IC card into the watt-hour meter. This product can be installed indoors or in meter box outdoors, have features with excellent long-term reliability, small volume, light weight, perfect appearance, easy installation, etc.

Standard Features:

- ✓ Surface mounting or hang type and din rail (optional) installation.
- ✓ 5+1 digits display cumulative electricity and rest electricity in turn.
- ✓ Each unit provides with IC Card to re-loading energy purpose.
- ✓ IC Card is with data encryption and anti-fake protection.
- ✓ It integrates full-digital metering with using electricity power consuming display, prepayment control, reading card and intelligent anti-power stolen, ect. Has high reliability.
- ✓ When the residual electric quantity reaches the prep warning value, the watt-hour meter would display symbol flickeringly, and would switch off automatically after a certain period of time delay.
- ✓ When the residual electric quantity in watt-hour meter remains zero, the watt-hour meter would trip automatically, and cut off the power supply.

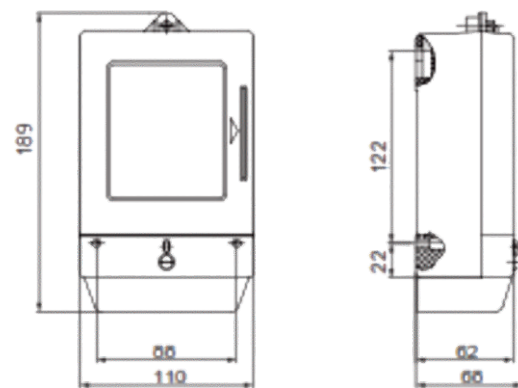
System Operation



DMTI DG II-PP
Single Phase IC-Card Prepayment



Dimensions



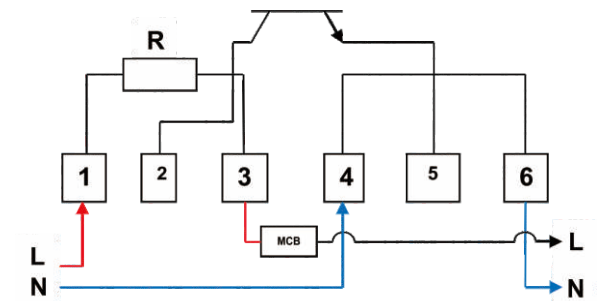
189mm (H) x 110mm (W) x 66mm (D)

Electrical parameters:

Reference Voltage	127 or 230V
Frequency	50Hz
Current	
Basic current (I _b)	5A
Maximum current (I _{max})	50A
Starting current (I _{st})	0.02A
Active energy constant	1600imp/kWh
Measurement Accuracy	
Active energy to IEC62053-21	Class 1.0
Power consumption	<2W
Insulation performance	AC Voltage 4kV for 1 minute, 1.2/50μs waveform impulse voltage 6kV
Ambient condition	
Standard working temperature	-20°C to +45°C
Limit working temperature	-30°C to +55°C
Relative humidity	?85%

DMTI DG II-PP Specification

Wiring Diagram



DMTI DG III-PP

Three Phase Electronic Watt-Hour Meter IC - Card Prepayment

Application

DIGITAL METER TECHNOLOGY INTERNATIONAL, Ltd produces Prepaid watt-hour meter DMTI - DG III-PP which is measure the active energy consumption on three phase AC power grid of rated frequency 50Hz or 60Hz, complying with Standards IEC 62053-21 and IEC 62052-11. Have the functions of load control, automatic detection and indication of fault. Standard configuration is without the detection function of opening terminal cover. When ordering, you can add the function: while opening terminal cover, the power will be cut. DMTI DG III-PP can select the meter suitable for both reloadable IC card and disposable IC card. To load, please let both IC card programmer and the computer on line. It is also available to load via the separate offline IC card programmer.

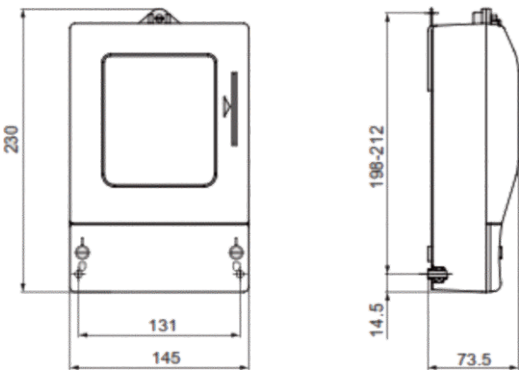
Standard Features:

- ✓ 6 digits LED or 7 digits LCD display for option.
- ✓ Prepayment mode is by kWh. Another mode by credit is for option when ordering.
- ✓ Standard configuration of prepayment management system software is a single computer version.
- ✓ LEDs indicate the power supply state, energy impulse signal and the load current flow direction separately.
- ✓ Front panel mounted in 3 points for fixing. The centre-to-centre distance between the top mounting holes and the bottom, which the user can select any needed distance, in accordance with Standards BS 7856 and DIN 43857.
- ✓ Beige flame retardant PC/ABS meter case and internal structure parts and the Class II insulation protection design, with the characteristics of moistureproof, flame retardant, thermostability, good weather resistance, high rigidity and excellent insulation property, etc., to ensure a longer service life and a more stylish appearance.

DMTI DG III-PP
Three Phase IC-Card Prepayment



Dimensions



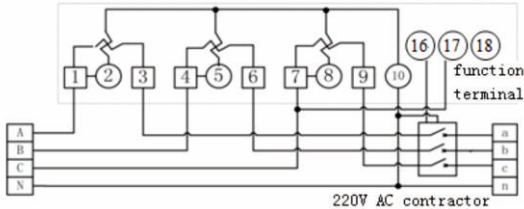
230mm (H) x 145mm (W) x 73.5mm (D)

Electrical parameters:

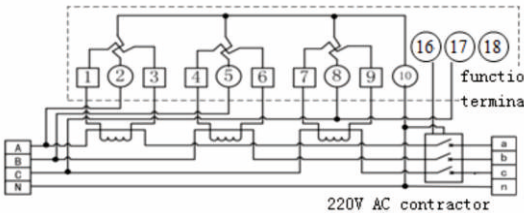
Reference Voltage	3 x 230/400VAC
Frequency	50Hz
Current	
Basic current (Ib)	10A / 20A / CT
Maximum current (Imax)	60A / 100A / 5A
Starting current (Ist)	0.04A / 0.08A / 0.01A
Active energy constant	320imp/kWh
Measurement Accuracy	
Active energy to IEC62053-21	Class 1.0
Power consumption	<2W
Insulation performance	AC Voltage 4kV for 1 minute
	1.2/50µs waveform impulse voltage 6kV
Ambient condition	
Standard working temperature	-20°C to +45°C
Limit working temperature	-30°C to +55°C
Relative humidity	<

DMTI DG III-PP Specification

Wiring Diagram



Direct wiring diagram of three phase four wire (outlay)



Mutual inductance / CT wiring diagram of three phase four wire