

DMTI DG II-PPT-W

STS Prepayment Token Single Phase Electronic Watt-Hour Meter

Application

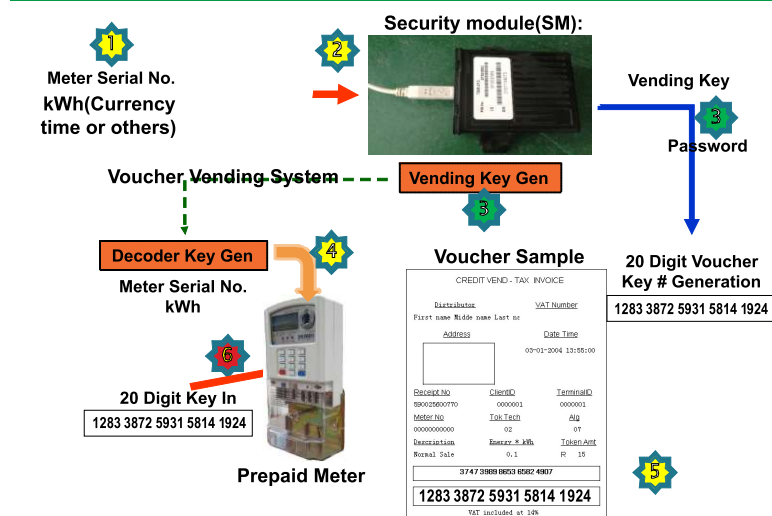
DIGITAL METER TECHNOLOGY INTERNATIONAL Ltd, produces Prepaid watt-hour meter **DMTI DG II-PPT-W** single phase which is completely accord with technical specification of Standard Transfer Specification (STS) encryption protocol which comply to International Standard IEC 62055-31, IEC 62055-41, IEC 62052-11, IEC 62053-21, IEC 62056-21.

DMTI DG II-PPT-W is used for a wide range of applications, due to an improved dynamic range allowing a basic current of 5 Amp while retaining a maximum current of 60 Amp and extended functional features. It is a compact and keypad based design in a BS8565 standard housing and maintains the rugged RF immunity with stand of 30V/m and IP 54 rating, it to be installed in harsh environments.

Standard Features:

- Comply with SPLN D3.009-1:2010
- 20 digit (Standard Transfer Specification) STS encryption
- Detection of significant reverse energy (SRE)
- IEC62056-21 compliant optical & RS485 port (optional) allowing for easy data interrogation
- Disconnects on overload and no credit
- Programmable load limit and low credit warning
- Detection and record tamper event such as opening cover, reverse connection, black-out
- Easy access to 12 months historical consumption data and last 5 token entered
- Advance tamper detection
- Meter shell Protection Rate IP 54

System Operation



DMTI DG II-PPT-W
Single Phase STS Prepayment-Token



Dimensions



215mm (H) x 118mm (W) x 65mm (D)

Electrical parameters:

Voltage	
Nominal Voltage Un	230V
Limited Voltage	70% ~ 120%Un
Frequency	
Nominal frequency fn	50-60Hz
Tolerance	5%
Current	
Basic current (Ib)	5A
Maximum current (Imax)	60A
Starting current (Ist)	20mA
Active energy constant	1600imp/kWh
Measurement Accuracy	
Active energy to IEC62053-21	Class 1.0
Burden	
Voltage circuit	<2W <8VA
Current circuit	<1VA
Temperature range	
Operation meter	-25°C to +70°C
Storage	-40°C to +85°C

Insulation:

Insulation level	4kV rms 1min
Voltage impulse withstand	8kV 1.2/50µs
Insulation System Classification	Protective Class II

Electro Magnetic Compatibility

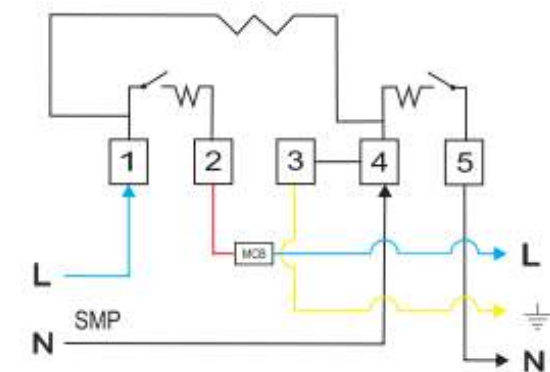
Electrostatic discharges	
Contact discharge	8kV
Air discharge	16kV
Electromagnetic RFfields	
27MHz to 500MHz typical	10V/m
100kHz to 1GHz typical	30V/m
Fast transient burst test	4kV

Mechanical requirements:

Meter shell Protection Rate	IP54
Protection	Class II
Maximum cable size	8 mm

DMTI DG II-PPT-W Specification

Wiring Diagram



For further information, please contact:

PT. MAM Internasional

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To get more than a meter

To get more than a meter

DMTI DG III-PPT

STS Prepayment Token Three Phase Electronic Watt-Hour Meter

Application

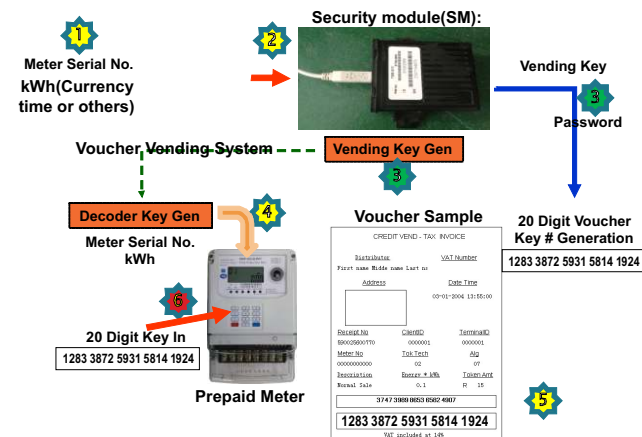
DIGITAL METER TECHNOLOGY INTERNATIONAL Ltd, produces Prepaid watt-hour meter **DMTI DG III-PPT** three phase which is completely accord with technical specification of Standard Transfer Specification (STS) encryption protocol which comply to International Standard IEC 62055-31, IEC 62055-41, IEC 62052-11, IEC 62053-21, IEC 62056-21. Credit and management protocol is transferred from point of sales (POS) to the meter via a 20-digit numeric token which generated using the Standard Transfer Specification (STS) encryption protocol and entered into meter via keypad.

The meter works in a three phase four wire or three wire (optional) network with 100 Amp per phase, and 30 Vm withstand of RF immunity, allowing it to operate in very severe environments. It is a perfect revenue protection device for sub-metering of residential, light commercial and industrial applications.

Standard Features:

- ✓ 20 digit (Standard Transfer Specification) STS encryption
- ✓ Detection of significant reverse energy (SRE)
- ✓ IEC62056-21 compliant optical & RS485 port (optional) allowing for easy data interrogation
- ✓ Disconnects on overload and no credit
- ✓ Programmable load limit and low credit warning
- ✓ Detection and record tamper event such as opening cover, reverse connection, black-out
- ✓ Easy access to 12 months historical consumption data and last 5 token entered
- ✓ Advance tamper detection
- ✓ Meter shell Protection Rate IP 54
- ✓ Indoor or outdoor wall-mounted

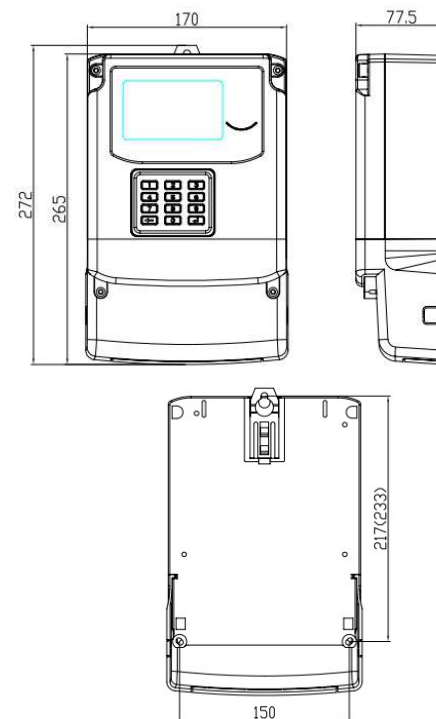
System Operation



DMTI DG III-PPT
Three Phase STS Prepayment-Token



Dimensions



272mm (H) x 150mm (W) x 77,5mm (D)

Electrical parameters

Voltage	
Nominal Voltage Un	3x240V
Limited Voltage	60% ~ 120%Un
Frequency	
Nominal frequency fn	50-60Hz
Tolerance	±5%
Current	
Basic current (Ib)	10A
Maximum current (Imax)	100A
Starting current (Ist)	30mA
Active energy constant	400imp/kWh
Measurement Accuracy	
Active energy to IEC62053-21	Class 1.0
Reactive energy to IEC62053-23	Class 2.0
Burden	
Voltage circuit	<2W <8VA
Current circuit	<1VA
Temperature range	
Operation meter	-25°C to +70°C
Storage	-40°C to +85°C

Insulation

Insulation level	4kV, 1min
Voltage impulse withstand	8kV 1.2/50µs
Insulation System Classification	Protective Class II

Electro Magnetic Compatibility

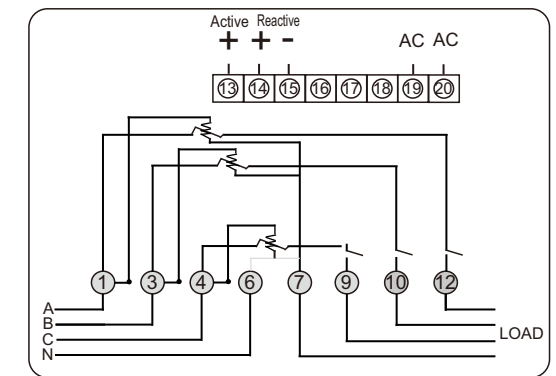
Electrostatic discharges	
Contact discharge	8kV
Air discharge	16kV
Electromagnetic RFfields	
27MHz to 500MHz typical	10V/m
100kHz to 1GHz typical	30V/m
Fast transient burst test	4kV

Mechanical requirements

Meter shell Protection Rate	IP54
Maximum cable size	10 mm

DMTI DG III-PPT Specification

Wiring Diagram



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