D.H. Meters Ltd

PRODUCT CATALOGUE

www.dhmeters.com
dhmeters1@gmail.com
Vat No. IE4812610/P
087-2534825

D.H. Meters Ltd has supplied electricity meters to the Irish market since 1983.

We have established a reputation for reliability, high quality products and good service as well as supplying electricity meters at low competitive prices.

This catalogue is designed to show the most common meters that D.H. Meters Ltd supplies.

D.H. Meters Ltd has a wide range of suppliers and contacts around the world so if you do not see the meter that you want, contact us and we will endeavour to source the meter for you.

For each meter, we give you an overview and technical specification and we also provide dimension and wiring diagrams for installation.

For any further enquiries regarding product information or pricing contact details are as follows.

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Surface Mounted Meters.

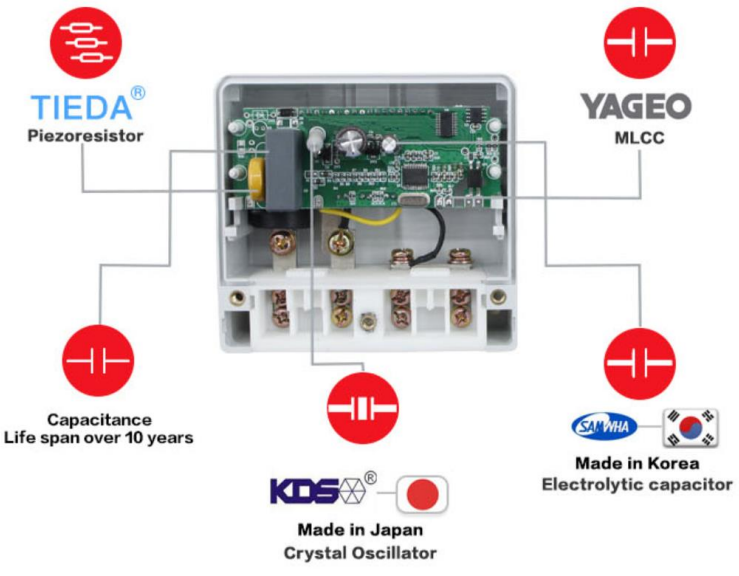
Pre-payment Meters.

Din Rail Mounted Meters

PRODUCT CODE: CM100

Mini Model

We pride ourselves on using only top grade components assuring the highest overall quality in our meter



Application of 2024 New Single Phase Two Wire Energy Meter.

2024 New Single Phase Two Wire Energy Meter is a new style single phase two wire active energy meter, adopting micro-electronics technique, an imported large scale integrated circuit using an advanced technique of digital and SMT techniques. 2024 New single phase two wire energy meter completely accords with relevant technical requirements of class 1 single phase active energy meter stipulated in international standard IEC62053-21.

Features of 2024 New Single Phase Two Wire Energy Meter.

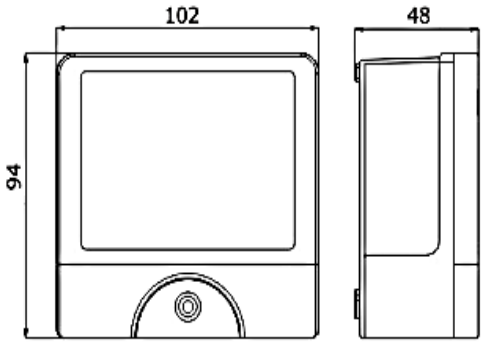
1. Bidirectional measurement, Reverse energy calculated into forward.
2. Indication: Pulse, power, reverse current.
3. Full PC.
4. Mini size and easy to install.

Technical Parameters of 2024 New Single Phase Two Wire Electricity and Energy Meter.

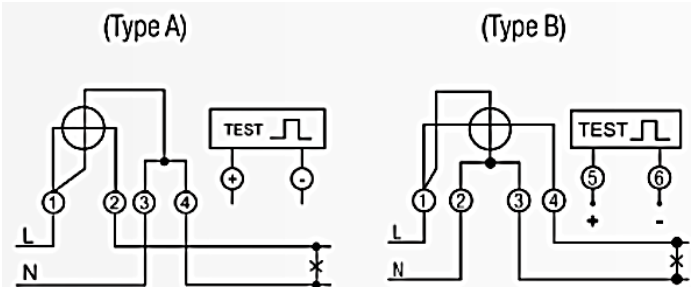
Specification	CM100
Accuracy	Class 1
Voltage	240V
Frequency	50Hz
Current	100A
Active	1600imp/kwh
Protection	IP54
Standard	IEC62053-21
Display	LCD

LED Light Indication.

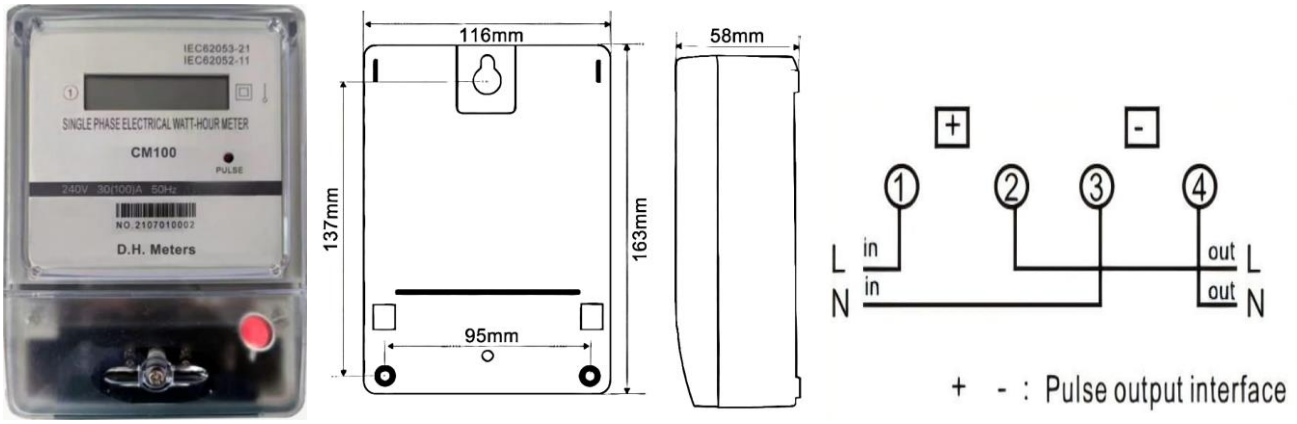
- Power supply indication: Power shows meter is working.
- Reverse using indication: Rev light show the meter is reverse using electricity.
- Impulse indication: Pulse light show the meter detects energy impulse.
- Dimensions: W=102mm x H=94mm x D=48mm.
- Terminal Size = 8.5mm diameter.



Terminal	Note(Type B)
1	Inlet phase line
4	Outgoing phase line
2	Inlet neutral line
3	Outgoing neutral line
+ and -	Port of pulse output passive



PRODUCT CODE: CM100



Application of Single Phase Four Wire Energy Meter.

Single Phase Four Wire Energy Meter is a front board mounted active energy meter used widely in measuring the power consumption for residential, offices and shops. The meter adopts an advanced ultra-low power loss integrated circuit technology and SMT technique. It actively measures active energy consumption from single phase supply. This single phase four wire energy meter completely accords with relevant technical requirements of class 1 single phase active energy meter stipulated in international standard IEC62053-21.

Features of Single Phase Four Wire Energy Meter.

1- High accuracy, reliability, and sensitivity.
2- Stable error curve.
3- Lightweight and easy to read screen.
4- Convenient installation.

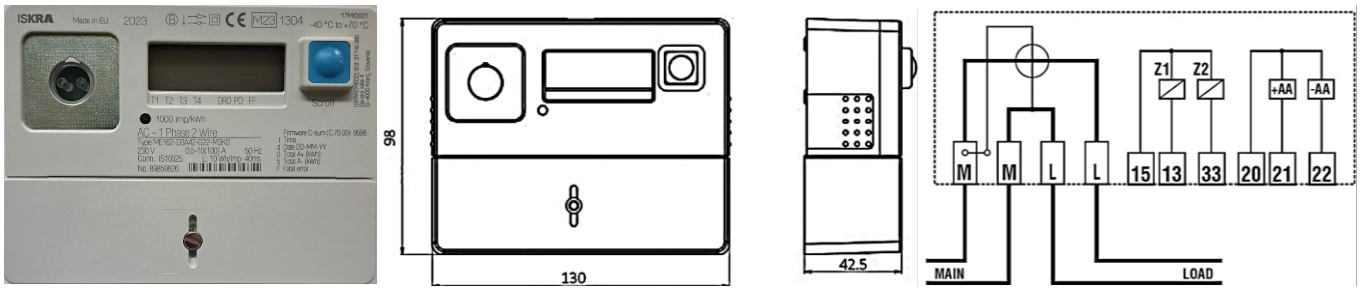
Technical Parameters of Single Phase Four Wire Electricity and Energy Meter.

Specification	CM100
Accuracy	Class 1
Voltage	240V
Frequency	50Hz
Current	100A
Active	1600imp/kwh
Standard	IEC62053-21
Display	LCD

Dimensions: W=116mm x H=163mm x D=58mm.

Terminal Size: = 8.5mm diameter.

PRODUCT CODE: ME162



Application of Single Phase Two Wire Energy Meter.

The Single Phase Two Wire Dual Rate Energy Meter with internal timeclock is intended for electric energy measurement and registration in single phase two wire networks in household applications. It boasts kwh import or import/export facility, making it suitable for those exporting their home generated electricity. The meter completely accords with the relevant technical requirements of class 1 single phase active energy meters stipulated in international standard IEC 62052-11 and IEC 62053-21.

Features of Single Phase Two Wire Energy Meter.

1. Active and Reactive energy measurement.
2. Reverse energy detection/export.
3. Compact design.
4. Optical port for programming and data acquisition.

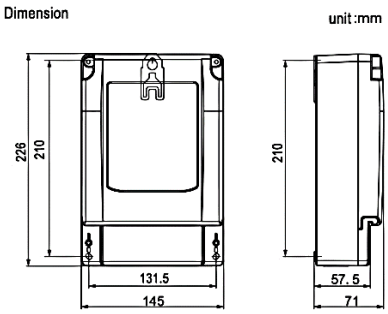
Technical Parameters of Single Phase Two Wire Electricity and Energy Meter.

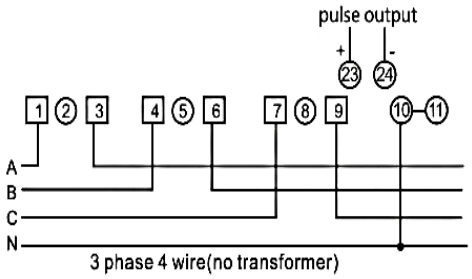
Specification	ME162
Accuracy	Class 1
Voltage	240V
Frequency	50Hz
Current	100A
Active	1000imp/kwh
Standard	IEC62053-21
Display	LCD

Dimensions: W=130mm x H=98mm x D=43mm.

Terminal Size = 8.5mm diameter.

PRODUCT CODE: CM3





Application of 2024 New Three Phase Four Wire Energy Meter.

2024 New Three Phase Four Wire Energy Meter is a front board mounted electronic active energy meter used for measuring electric energy in three phase systems. This meter adopts many advanced technologies of research and development, a specialised chip for power measurement and SMT technique. This meter completely accords with the relevant technical requirements stipulated in the international standard IEC62053-21 for class 1 three phase active energy meters.

Features of 2024 New Three Phase Four Wire Energy Meter.

1- High accuracy.
2- High reliability.
3- Lightweight components.
4- Convenient easy installation.

Technical Parameters of 2024 New Three Phase Four Wire Energy Meter.

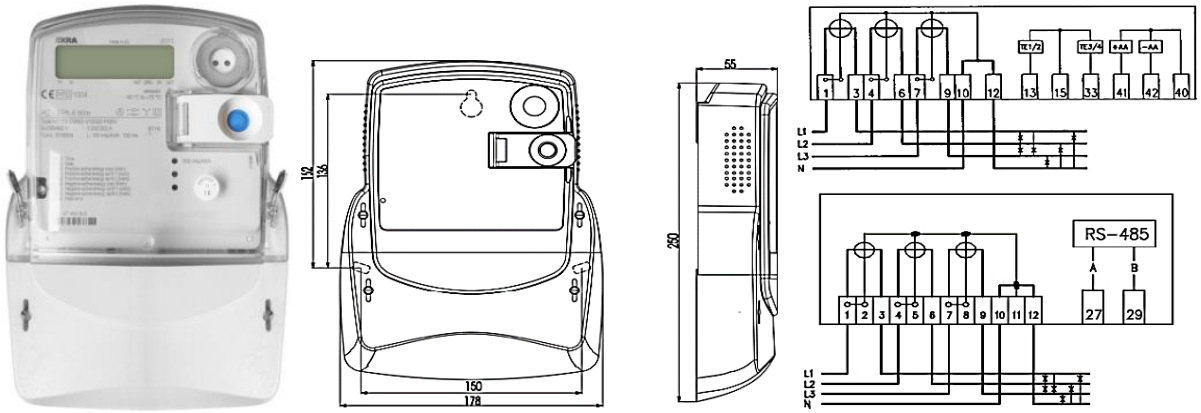
Specification	CM3
Accuracy	Class 1
Voltage	240V
Frequency	50Hz
Current	100A
Active	400imp/kwh
Standard	IEC62053-21
Display	LCD

LED Light Indication.

The meter is equipped with a light for power impulse signal output and three phase indicators.

- **Dimensions**: W=145mm x H=226mm x D=71mm.
- **Terminal Size:** = 8.6mm diameter.

PRODUCT CODE: MT174



Application of Three Phase Four Wire Energy Meter.

The Three Phase Four Wire Dual Rate Energy Meter is designed for measurement and registration of active, reactive and apparent energy and demand in three phase four wire networks. The meter is one of the most versatile three phase meters on the market and can be configured to show a number of different electrical parameters to suit a wide variety of application including, billing for consumption and measuring imported and exported energy on renewable installations. Measuring and technical characteristics of the meter completely accords with relevant technical requirements of class 1 three phase active energy meter stipulated in international standard IEC62052-11 and IEC62053-21.

Features of Three Phase Four Wire Energy Meter.

1- Import/export energy.
2- Multi-tariff c\w internal time switch.
3- Small size and modern design.
4- Pulse output.

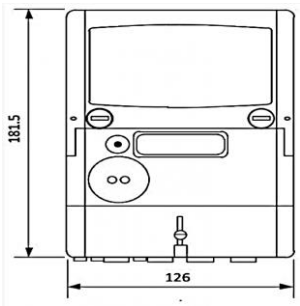
Technical Parameters of Three Phase Four Wire Electricity and Energy Meter.

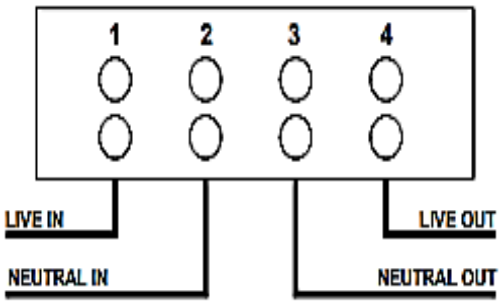
Specification	MT174
Accuracy	Class 1
Voltage	240V
Frequency	50Hz
Current	100A
Active	500imp/kwh
Standard	IEC62052-11 / IEC62053-21
Display	LCD

Dimensions: W=178mm x H=250mm x D=55mm.

Terminal Size: = 8.5mm diameter.

PRODUCT CODE: MP21





Application of Single Phase Four Wire Electronic Prepay Card Meter.

The MP21 RFID is a pre-payment electricity card meter using RFID technology (Radio-frequency identification). The credit from the pre-loaded pre-payment cards is transferred by holding the card to the front of the meter. The meter is designed to be used for the control of the electricity supply in utility or secondary metered sites such as holiday and landlord accommodation. The meter is programmed by using a master card in conjunction with the red and blue buttons on the meter. This function allows the energy prices to be set.

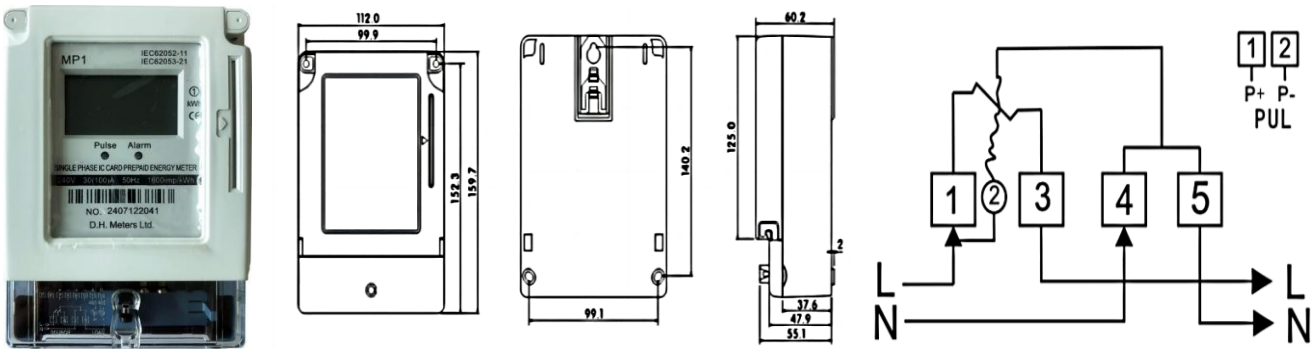
Technical Parameters of Single Phase Four Wire Electronic Prepay Card Meter.

Specification	MP21
Accuracy	Class 1
Voltage	240V
Frequency	50Hz
Current	100A
Active	1000imp/kwh
Display	LCD

Dimensions: W=126mm x H=182mm x D=58mm.

Terminal Size: = 8.6mm diameter.

PRODUCT CODE: MP1



Application Of 2024 New Single Phase Four Wire Electronic Prepay Card Meter.

2024 New Single Phase Four Wire Electronic Prepay Card Meter using microelectronic technology to measure energy, using full shielding and fully sealed structure. The meter uses an advanced single chip processing collection system and preserves data with excellent resistance to electromagnetic interference. The meter is anti-theft and has high accuracy. This meter completely accords with the relevant technical requirements stipulated in the international standard IEC62053-21 and IEC62052-11.

Application And Sale of Prepay Cards.

Cards come pre-loaded with units of electricity already on them. Available in 25kwh, 50kwh or 100kwh.
For easy usage the card meters do not require to be programmed cancelling out the need for timely site visit involving recalibration. The landlord / seller of cards calculates the price to sell cards to the tenant / buyer by checking his electrical provider bill for the current price per kwh unit.
i.e. 40 cents per kwh = selling price to tenant for a 25kwh card is €10, a 50kwh card is €20 and a 100kwh card is €40.

Technical Parameters of 2024 New Single Phase Four Wire Electronic Prepay Card Meter.

Specification	MP1
Accuracy	Class 1
Voltage	240V
Frequency	50Hz
Current	100A
Active	1600imp/kwh
Display	LCD

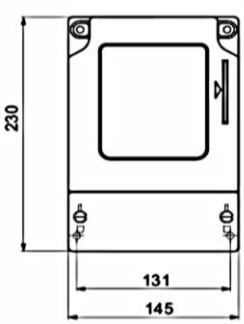
LCD Screen Display Description.

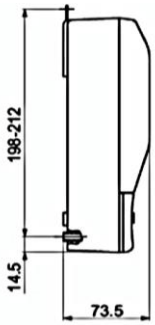
1- Total kwh power consumption.
2- Buy kwh, amount to recharge meter.
3- Odd quantity, amount of kwh left on meter.

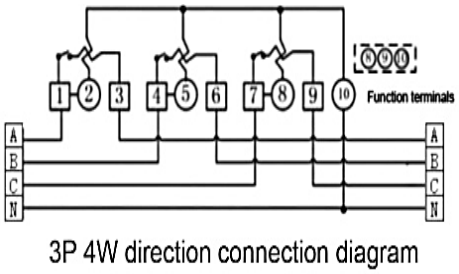
Dimensions: W=112mm x H=153mm x D=55mm.

Terminal Size: = 8.6mm diameter.

PRODUCT CODE: MP3







Application Of 2024 New Three Phase Four Wire Electronic Prepay Card Meter.

2024 New Three Phase Four Wire Electronic Prepay Card Meter using microelectronic technology to measure energy, using full shielding and fully sealed structure. The meter uses an advanced single chip processing collection system and preserves data with excellent resistance to electromagnetic interference. The meter has anti-theft and has high accuracy. This meter completely accords with the relevant technical requirements stipulated in the international standard IEC62053-21 and IEC62052-11.

Application And Sale of Prepay Cards.

Cards come pre-loaded with units of electricity already on them. Available in 25kwh, 50kwh or 100kwh.
For easy usage the card meters do not require to be programmed cancelling out the need for timely site visit involving recalibration. The landlord / seller of cards calculates the price to sell cards to the tenant / buyer by checking his electrical provider bill for the current price per kwh unit.
i.e. 40 cents per kwh = selling price to tenant for a 25kwh card is €10, a 50kwh card is €20 and a 100kwh card is €40.

Technical Parameters of 2024 New Three Phase Four Wire Electronic Prepay Card Meter.

Specification	MP3
Accuracy	Class 1
Voltage	240V
Frequency	50Hz
Current	100A
Active	400imp/kwh
Display	LCD

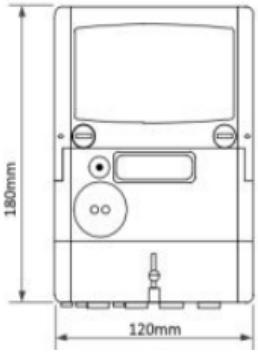
LCD Screen Display Description.

1. Total kwh power consumption.
2. Buy kwh, amount to recharge meter.
3. Odd quantity, amount of kwh left on meter.

Dimensions: W=145mm x H=230mm x D=73mm.

Terminal Size: = 8.6mm diameter.

PRODUCT CODE: *Top Up Meter*



Application of Top Up Meter

Top Up Meters offers the latest technology and service for managing energy to your tenants. Like traditional prepayment metering the tenant or consumer will need to prepay for the energy they use but unlike previous prepayment systems no cash or tokens are required. They simply need to purchase energy from the secure payment website and credit is instantly transferred to their meter via the GSM network.

Many benefits are available to the landlords or site owner in using this system as once the meters are installed there is no other management required. Simply give each tenant the website address and they can follow the instructions for purchasing credit and Top up meters will transfer their payments to your nominated bank account.

Features of Top Up Meter

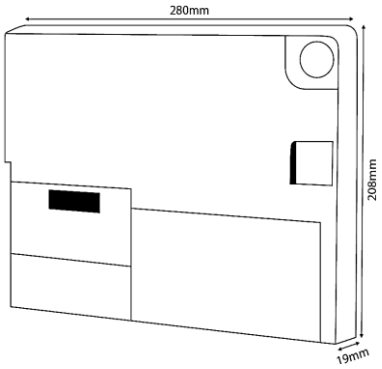
1. Tokenless prepayment with remote top ups.
2. GPRS Communications with network roaming SIM.
3. Online top ups from anywhere in the world.
4. Supports dual fuel applications with optional gas sender.

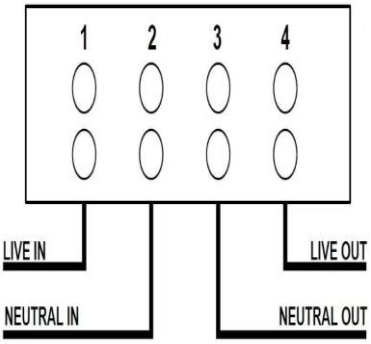
Technical Parameters of Top Up Meter

Specification	Top Up Meter
Accuracy	Class 1
Voltage	240V
Frequency	50Hz
Current	100A
Active	1000imp/kwh
Display	LCD

Dimensions: W=183mm x H=270mm x D=93mm.

PRODUCT CODE: Emlite 1/2 Euro coin meter





Application of Emlite 1/2 Euro Coin Meter

The Emlite prepayment coin meter works with 1 and 2 euro coins only. A coin value is set to a specific cost per kwh and once the coin is accepted the remaining credit value will decrease as electricity is used. A digital display indicates the amount of credit/time remaining. The grey button beside the digital display also allows the user to scroll through the readings on the meter. Removal of the coin box allows the programming of the meter using the two grey buttons A and B. This allows the meter to be set up to work on consumption or to work on time.

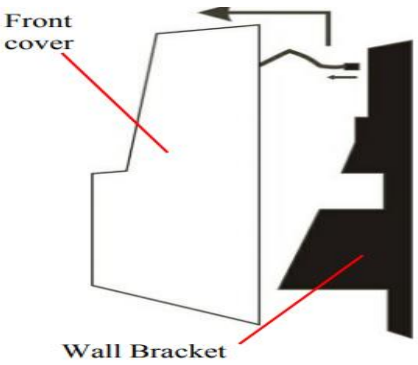
Technical Parameters of Emlite 1/2 Euro Coin Meter

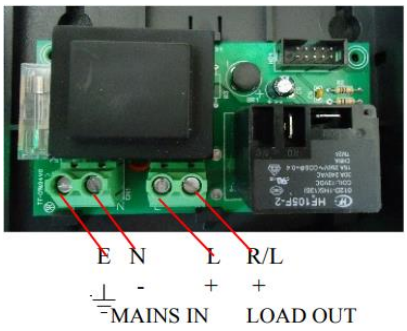
Specification	EML 1 & 2
Accuracy	Class 1
Voltage	240V
Frequency	50Hz
Current	100A
Active	1000imp/kwh
Display	LCD

Dimensions: W=280mm x H=208mm x D=95mm.

Terminal Size: 8.5mm diameter.

PRODUCT CODE: ET30k





Application of ET30k Digital Timer

The ET30k is a 30-amp digital timer programmable from one second to 99hours and 59minutes. Standard features include digital display, resettable and non-resettable coin counter and is available in a 1euro coin model or an L2 token model. The time period may be set in minutes and seconds or hours and minutes mode.

Its case is made from flame retardant, impact resistant ABS plastic. Power consumption of the timer is approximately 22W (230V AC). Loads of up to 7kVA (30A resistive) can be switched directly by the timer, which is typically one 7kW shower or 12 fluorescent lamps.

The versatility of the ET30k is increased by the key operated override switch which allows the output to be turned on permanently. This is useful for match tournaments on tennis courts and similar facilities or for ease of servicing equipment.

Service mode instructions for setting ET30k. Input program code as 80.01 in the P312 display option in menu.

Remove the coin box and press and release button B until the display screen shows “St01”.

- St01 – sets the amount of time given by the L2 token coin
- St02 – sets the amount of time given by a 1-euro coin
- St03 – displays the total amount of tokens/money inserted
- St04 – displays the total amount of credit given since last reset

To view or change time settings:

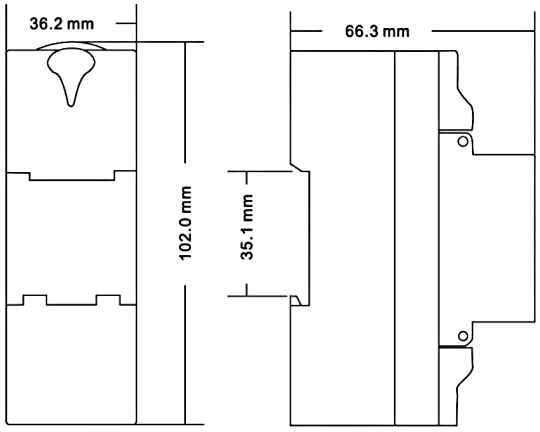
Press and release button B to step to the desired setting number. When the required number is showing on the display press and release button A to display the current setting. Press and release A to select the digit to be changed, then press B to alter that digit by increasing in increments of one. When the required setting is showing on the display put the coin box back in.

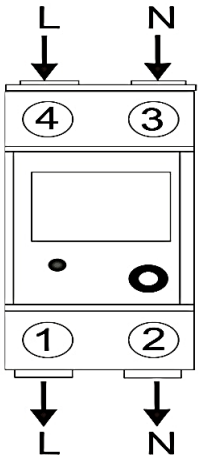
Technical Parameters of ET30k Digital Timer

Specification	ET30k
Accuracy	Class 1
Voltage	240V
Frequency	50Hz
Current	30A
Display	LCD

Dimensions: W=183mm x H=270mm x D=93mm.

PRODUCT CODE: SDM230





Application of Single Phase Din Rail Energy Meter (2 Module)

The single phase electronic active energy din rail meter is manufactured for measure single phase AC active power. The meter adopts special large scale integrated circuit and SMT technology for measuring electric energy ensuring high accuracy and reliability. This meter completely accords with the relevant technical requirements stipulated in the international standard IEC62053-21.

Features of Single Phase Din Rail Energy Meter (2 Module)

1. Displays current, voltage, apparent power, total power consumption, sub power consumption (Press button S for 5 seconds to reset to 0).
2. Small and light weight appearance with excellent reliability.
3. LCD Display.
4. 35mm standard din rail installation.

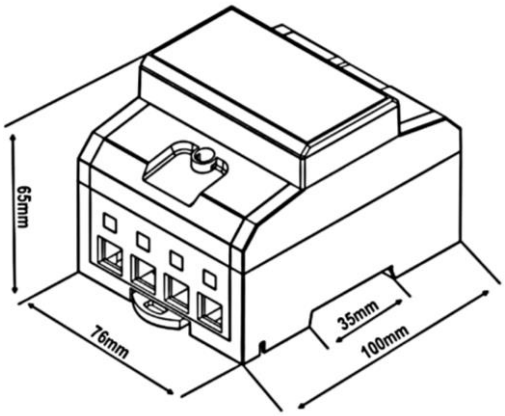
Technical Parameters of Single Phase Din Rail Energy Meter (2 Module)

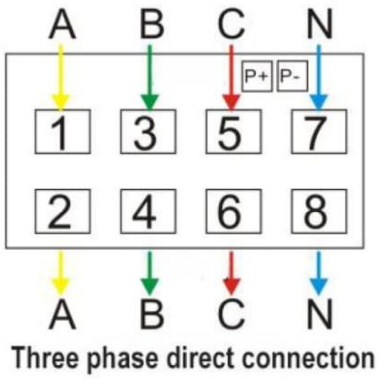
Specification	SDM230
Accuracy	Class 1
Voltage	240V
Frequency	50Hz
Current	80A
Active	1600imp/kwh
Standard	IEC62053-21
Display	LCD

Dimensions: W=36mm x H=102mm x D=66mm.

Terminal Size: 8.5mm diameter.

PRODUCT CODE: SDM72D





Application of Three Phase Din Rail Energy Meter (4 Module)

The Three phase electronic active energy din rail meter is manufactured for the measurement of three phase AC power. It uses advanced microelectronics technology and the SMT production process. This meter completely accords with the relevant technical requirements stipulated in the international standard IEC62053-21.

Features of Three Phase Din Rail Energy Meter (4 Module)

1. LCD display mode.
2. High accuracy, sensitivity and performance.
3. Low power consumption.
4. Light weight and simple operation.

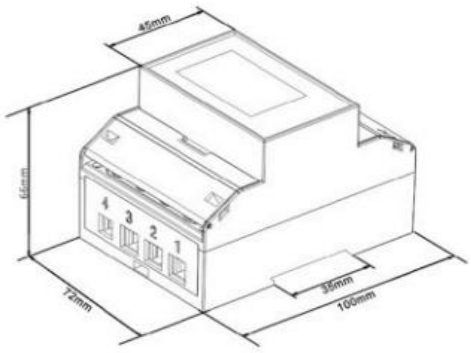
Technical Parameters of Three Phase Din Rail Energy Meter (4 Module)

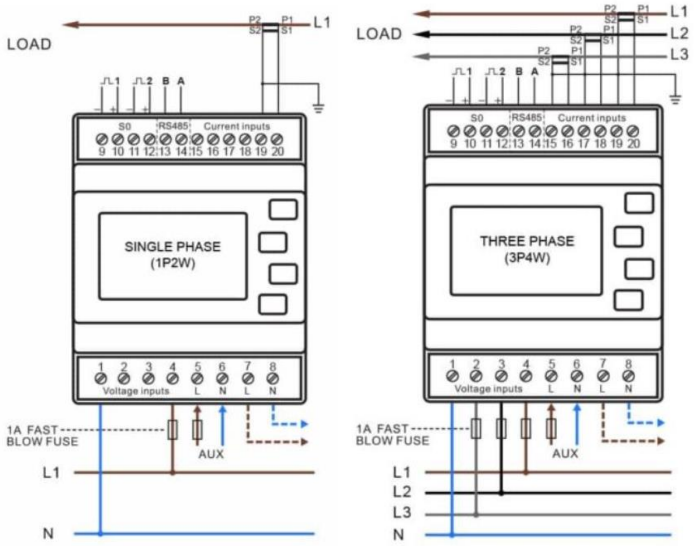
Specification	SDM72D
Accuracy	Class 1
Voltage	240V
Frequency	50Hz
Current	100A
Active	400imp/kwh
Standard	IEC62053-21
Display	LCD

Dimensions: W=76mm x H=100mm x D=65mm.

Terminal Size: 8.5mm diameter.

PRODUCT CODE: *SDM630-MCT-E*





Application of SDM630-MCT-E

The SDM630-MCT-E is a new generation modern design power monitored meter that will measure and display power quality parameters. It has been engineered to cover most applications (Single phase and Three phase networks / built in pulsed and RS485 Modbus / import and export kwh).

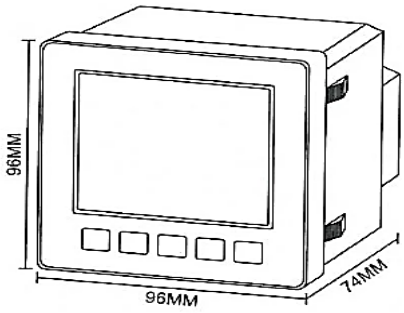
It is produced to the highest quality and utilises the latest microprocessor and technology. It has a blue backlit display and sixteen different measuring parameters. This includes a negative power reading to indicate reversal of CT installation or connection. With built in pulsed outputs and RS485 Modbus RTU it is fully compatible for integration with BMS and remote monitoring systems.

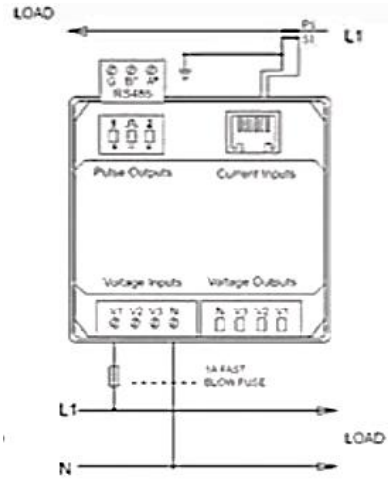
Split core transformers are designed for fast and easy installation and permits non contact current measurements through magnetic field induction without requiring that the primary wire be taken offline and disconnected for CT installation.

This method permits for safer easy and portable current measurements. An internal precision burden resistor across the secondary winding of the CT provides a safe low voltage output and permits safe opening of the secondary circuit.

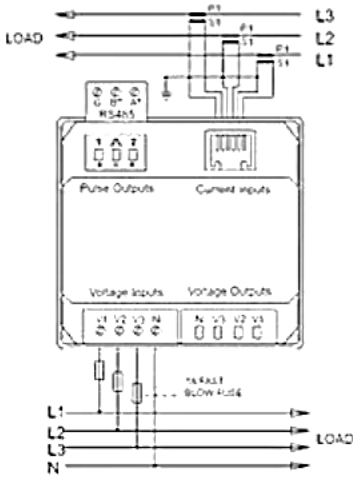
Dimensions: W=72mm x H=100mm x D=66mm.

PRODUCT CODE: *X96 – 1E*





1P2W



3P4W

Application of Smart X96-1E

The Smart X96-1E is a high accuracy multifunction power meter that has been developed with plug in connections for the current transformer and mains voltage supply inputs. This negates the need to traditional wire into the meter and saves 90% on labour as well as eliminating wiring errors. It is one of the most user-friendly multifunction power meters in the market form installation to end client use. It requires mains voltage inputs and external current transformers to operate, it is self-supplied. It comes complete with RS485 Modbus RTU and dual pulsed outputs as standard.

The 3-in-1 current transformer range is for use with the Eastron RJ12 meters which combines three traditional current transformers in one moulding case with a RJ12 connection for simple and easy error free installation.3-in-1 current transformers can be directly installed next to a three-phase moulded case circuit breaker, thus saving installation time where fitting three standard individual current transformers would be required. In addition, the 3-in-1 current transformers, there is also a solid core single pole current transformer available for single phase applications. All current transformers are supplied with a 1m connecting cable, with RJ12 connector termination at each end. It is typical in most installations that the current transformers are mounted on the left-hand side of the breaker so P1 is facing the correct way. However, it is also possible to mount the current transformer on the right-hand side with P2 facing the breaker. This is possible due to the meter having the option to reverse the flow to correct this type of application.

Dimensions: W=96mm x H=96mm x D=70mm

PRODUCT CODE: SDM230 Wifi

Available on the App Store

Available for Android on Google play

Application of 2024 New Single Phase Din Rail Energy Meter (2 module WIFI)

The 2024 New single phase 2 module din rail energy meter offers a wide range of functions to be integrated into electrical installations with significant benefits for the user involving communication options. It is designed for high level performance that is safe and convenient to install. The meter is ideal for remote monitoring of energy consumption.

TUYA Wifi connection (iPhone or Android):

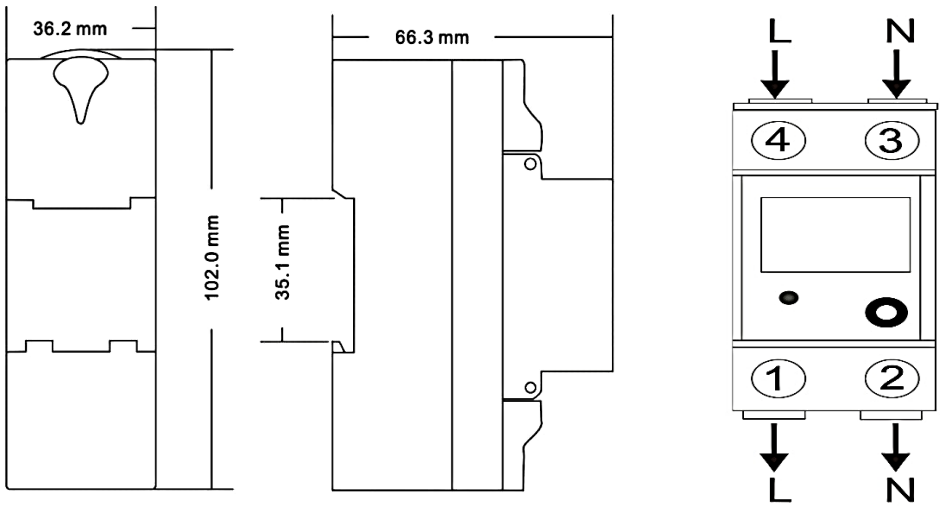
1. Download the free APP from the store and register.
2. Find the device, make sure the meter is installed with power on, and hold set button until the LED is flashing (Bluetooth and WIFI needs to be on).
3. The APP will automatically add the device into the list. This might take one minute.
4. Administer can add multiple devices to the account and label the different meters. i.e.: Room 1 = Basement.
5. The voltage, current and power will show directly on the first page.
6. For more functions browse through app to find.

Technical Parameters of 2024 New Single Phase Din Rail Energy Meter (2 module WIFI)

Specification	SDM230 WIFI
Accuracy	Class 1
Voltage	240V
Frequency	50Hz
Current	80A
Active	1200imp/kwh
Standard	IEC62053-21
Display	LCD
Communication	WIFI / Bluetooth.

Dimensions: W=36mm x H=102mm x D=66mm.

Terminal Size: 8.5mm diameter.

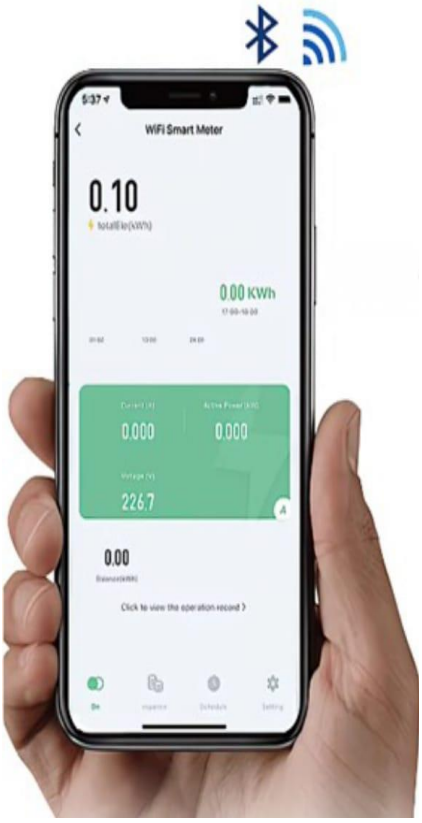


PRODUCT CODE: CM3 Wifi

Powered by tuya Intelligence Inside

SMART ENERGY METER

APP FREE



Remote control

Timing & delay

Voltage display

Power consumption monitoring

Available on the App Store

Available for Android on Google play

Application of 2024 New Three Phase Din Rail Energy Meter (7 Module WIFI)

The 2024 New Three Phase 7 Module Din Rail Energy Meter offers a wide range of functions to be integrated into electrical installations with significant benefits for the user involving communication options. It is designed for high level performance that is safe and convenient to install. The meter is ideal for remote monitoring of energy consumption.

TUYA Wifi connection (iPhone or Android):

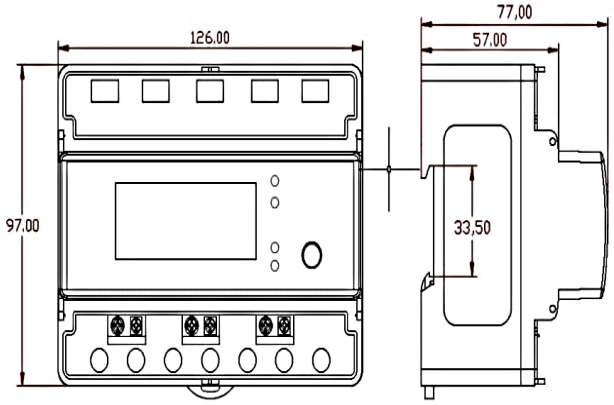
1. Download the free APP from the store and register.
2. Find the device, make sure the meter is installed with power on, and hold set button until the LED is flashing (Bluetooth and WIFI needs to be on).
3. The APP will automatically add the device into the list. This might take one minute.
4. Administer can add multiple devices to the account and label the different meters. i.e.: Room 1 = Basement.
5. The voltage, current and power will show directly on the first page.
6. For more functions browse through app to find.

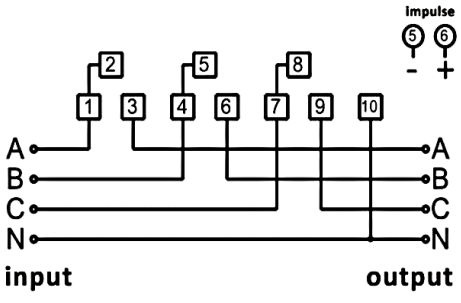
Technical Parameters of 2024 New Three Phase Din Rail Energy Meter (7 Module WIFI)

Specification	CM3 WIFI
Accuracy	Class 1
Voltage	240V
Frequency	50Hz
Current	100A
Active	800imp/kwh
Standard	IEC62053-21
Display	LCD
Communication	WIFI / Bluetooth.

Dimensions: W=126mm x H=97mm x D=77mm.

Terminal Size: 8.5mm diameter.





3 phase 4 wire (direct connection model)