



EMS Invirotel Energy Management
Smart About Energy

Product Catalogue





**M180R - Load Control
80A Meter**

- 20(80) A, Class 2, direct measurement static watt-hour meter.
- Real two-way "A" band Power Line Communication.
- Internal 100A load switching element.
- Remote disconnection.
- For meter operated with separate CIU (split display) unit:
 - Prepayment STS operation, simple & TOU (Time Of Use).
 - Keypad entry for prepaid energy, STS (Standard Transfer specification) tokens.
 - Reconnection controlled by customer.



**M160R -Load Control Meter
With Display**

- 15(60) A, Class 2, direct measurement static watt-hour meter.
- Real two-way "A" band Power Line Communication.
- Calculates locally (TOU) consumption at multiple tariffs.
- Internal 60A load switching element.
- Remote disconnection.
- Remotely limits customer maximum power demand.
- For meter operated with split Display unit:
 - Prepayment STS operation, simple & TOU ;
 - Keypad entry for prepaid energy, STS tokens;
- Small size - DIN - rail mounted.



**M160RWD -Load Control
Meter Without Display**

- 15(60) A, Class 2, direct measurement static watt-hour meter.
- Real two-way "A" band Power Line Communication.
- Calculates locally TOU consumption at multiple tariffs.
- Internal 60A load switching element.
- Remote disconnection.
- Remotely limits customer maximum power demand.
- For meter operated with split Display unit:
 - Prepayment STS operation, simple & TOU.
 - Keypad entry for prepaid energy, STS tokens.
- Small size - DIN - rail mounted.



**M180RSB - Prepayment
Load Control Meter**

- 20(80) A, Class 2, direct measurement static watt-hour meter.
- Real two-way "A" band Power Line Communication
- Calculates locally TOU consumption at multiple tariffs.
- Internal 100A load switching element.
- Prepayment STS operation, simple & TOU.
- Standard base mounted.
- Keypad entry for prepaid energy, STS tokens.



M320CTG - Standalone Bulk Meter With GPRS

- Class 2 active energy, Class 2 reactive energy.
- 3x5(20)A, CT(current transformers) connection meter.
- Two way communication access to all units.
- Load control Programs.
- Reports the power loading of each of the three phases.
- Informs immediately on a power failures by SMS.
- Handles TOU.
- Cellular communication networks - Quad band GSM 850/900/1800/1900 MHz.



M380 - Direct Connection

M380R - Direct Connection With Relay

M320CT - CT connection

- Class 2 active energy, (DESIGNED FOR CLASS 1) Class 2 reactive energy.
- M380, M380R - 3x20(80)A, direct connection electricity meters.
- M320CT - 3x5(20)A, CT connection electricity meter.
- Real two-way "A" band Power Line Communication.
- Internal real time clock updated periodically by concentrator.
- M380R - Internal 100A load switching elements in each phase.
 - Remote disconnection/reconnection.
 - Remotely Limits customer maximum power demand.



M360 - Load Control Meter With Display

- 20(63) A, Class 2, direct measurement static watt-hour meter.
- Real two-way "A" band Power Line Communication.
- Calculates locally TOU consumption at multiple tariffs.
- Repeats and amplifies signals transmitted by other distant units towards the concentrator over the power network – No distance limitation.
- Small size – triple width DIN – rail mounted.

Concentrator



C320CT - Concentrator

- Two way communication access to all units.
- Indicates the electricity phase associated with every consumer.
- Load control Programs.
- Reports the power loading of each of the three phases.
- Keeps the reports of the last ten power failures.
- Accumulates 24 hour load curves for all the meters.
- Informs immediately on a power failure by SMS.
- Handles TOU.
- Also functions as a Three-Phase electricity meter.



**A130R - Appliance Control Device
Single Phase PLC Control Switch**

- Real two-way "A" band Power Line Communication.
- Remote disconnection/reconnection by command from the control center.
- Automatic disconnection/reconnection according to shading table sent from the concentrator periodically.
- Reconnection by command from the CIU – split display unit (Optional).



Display Customer Interface Units



D120 - Display Unit

- Real two-way Power Line Communication.
- Displays various customer and network information.
- Includes a real time clock updated periodically by the concentrator.
- Total Consumption Reading.
- Tariff Consumption Reading.
- Active Tariff & Expiration Time.
- Power Demand.
- Power Limit.
- Prepayment Balance.
- Shows broadcast and individual messages.



**D120KP - Split Display unit
Keypad**

- Prepayment STS operation, simple & TOU.
- Keypad entry for prepaid energy, STS tokens.
- Battery operated when energy credit exhausts and the meter disconnects power to the house, to allow the customer to introduce new tokens.
- Real two-way Power Line Communication.
- Displays various customer and network information. Includes a real time clock updated periodically by the concentrator.
- Total Consumption Reading.
- Tariff Consumption Reading.
- Active Tariff & Expiration Time.
- Power Demand.
- Power Limit.
- Prepayment Balance.
- Shows broadcast and individual messages.



Enerhub - Energy Gateway

- Real time Zigbee wireless communication .
- Supports many devices on one network.
- Supports SSL for HTTP and secured Zigbee communication.
- Provides LAN & WAN access.



Multi - Clampers - MC8 & MC12

- Supplied With a proprietary set of 8 or 12CTs (CT - Current Tranformer)
- Measurements can be made every 5 seconds.
- Measures Power, Consumption, Power Factor,
- Reactive Energy, Carbon Emissions, Frequency, Voltage.



Water Pulse Unit



RFTU- RF Terminal Unit

- Unlicensed RF communication 433MHZ
- Ultra Low Power Consumption.
- Battery outstanding services life more than 15 years.
- Stand alone Unit.
- Extremely small- D X L = 30 X 165 mm

For More Info & Pricing Please Contact



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