



Our circuit-level DIN rail form-factor meters are so small that fit almost everywhere. Due to their optimal cost efficient design, they have a low TCO enabling the adoption of a larger number of metering points, driving much more detailed insight into energy efficiency opportunities.

Architecture	ZigBee Mesh Network
Frequency band	2.4 GHz
Simultaneous operation of multiple metering devices	Yes
Minimum Data communication interval	1 second (default 5minutes)
Data storage – measurement device	Yes
Response to loss of communication	Yes (Path reorganization through Zigbee)
Security mechanism	Yes. AES encryption 128 bits.

Meazon DinRail 3-Phase ULTRA

Wireless Web-enabled three-Phase energy circuit-level meter, measuring Current, Voltage, Frequency, Active and Reactive Power and Energy. Used for monitoring and controlling up to three phases electrical power feeds or three electrical lines in an electrical board in businesses or homes.

Description

Meazon DinRail 3-Phase ULTRA comes with three Split-Core Current Transformers which can measure up to 600 Amperes per Phase. Ideal for real time monitoring, equipped with build-in data logger, down to 1 second report interval over ZigBee and data uploading to the Cloud over Meazon Gateway.

Meazon DinRail 3-Phase ULTRA can drive a cold junction where a power relay could potentially be connected and control (on/off) the power supply to a load. The control logic could be driven by external or internal events.

Also, it comes with a general purpose “Neutral Detection” indication contact, capable of periodically monitoring and reporting power status of an AC electrical circuit (e.g. night tariff activation info).



Operating Voltage / Frequency (model depended)*	100-240 Vac / 45-65 Hz, 200-285 Vac / 45-65 Hz
Power loss response	Automatic resumption of operation after power loss



Electric parameters measured	Irms, Vrms, Frequency, Active Power & Energy, Reactive Power & Energy
Ranges of measured parameters (model depended)*	<ul style="list-style-type: none"> Voltage: 0 to 240 Vac phase-to-neutral, 45 to 65 Hz Voltage: 0 to 285 Vac phase-to-neutral, 45 to 65 Hz Current: up to 600 Amperes



Accuracy of measurements**	<1% of reading measurement error (metering device)
Build-in Data log record	25 days



Extra features / functionalities	<ul style="list-style-type: none"> External relay control External relay scheduling Connected Phase Sequence status Led Neutral Detection indication contact
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Coverage	Up to 50m indoor / mesh topology
Dimensions	27.8 X 80 x 59.6(WxHxD) in mm
Operating environment	<ul style="list-style-type: none"> Temperature: -20° C to 50° C Relative Humidity: 10% to 90% (RH), non-condensing

* Please refer to meazon website for available model numbers
 ** Accuracy refers to Electric Power Measurements