![meazon logo - measure | monitor | manage]

Meazon's 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(*1) enabling the adoption of a larger number of metering points, driving much more detailed insight into energy efficiency opportunities.

| Architecture | Zigbee Mesh Network Wi-Fi NB-IoT LTE CAT M1 |
|---|---|
| Frequency band | Zigbee/Wi-Fi: 2.4 GHz NB-IOT: 20, 8, 3 LTE M1 : 13, 12, 5, 4, 2 |
| System | 1-ph 3-Ph. 4-wire |
| Minimum data reporting interval | <1 second (default 5 min) |
| Data storage in the device | Yes |
| Security mechanism | AES encryption 128 bits in Zigbee, VPN in WiFi & NB-IoT |

## Meazon DinRail 3-Phase Advanced v4.0 NB

Wireless (Zigbee, NB-IoT, Wi-Fi) three-Phase energy circuit-level meter, measuring Current, Voltage, Active and Reactive Power/energy, Power Factor and Harmonics (optional). Used for measuring and controlling up to three phases electrical power feeds or three electrical lines in an electrical panel.

### Description

Meazon DinRail 3-Phase Advanced v4.0 NB comes with three (or four) Split-Core Current Transformers which can measure up to 2000 Ampere per phase(*2). Higher amperage up to 4000A is possible. Ideal for real time monitoring, equipped with build-in data logger. Report interval down to 1 second over Zigbee connected to Meazon Janus GW that can be used to interface with different Cloud platforms (Azure, AWS, …). The NB-IoT or LTE Cat M1 version can send data to any platform over Meazon Cloud GW.

Meazon DinRail 3-Phase Advanced v4.0 NB has a general-purpose programmable output to control an external power relay. The control logic could be driven by certain events.

It comes with a general-purpose AC input indication contact that can be used as an extra information input to your system (e.g. night tariff activation info).

CE

FC

cULus LISTED
OPEN-TYPE PROCESS CONTROL EQUIPMENT
E482221
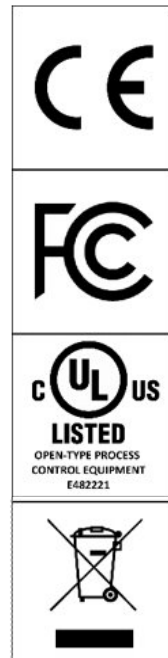
| Operating Voltage / Frequency | 100 to 285 Vac / 45 to 65 Hz |
|---|---|
| Loss of power or overvoltage | Automatic reset after power loss, surge protection |

| Metered electricity variables | Irms, Vrms, Active Power & Energy, Reactive Power & Energy, Frequency, Power Factor & Harmonics (optional) |
|---|---|
| Ranges of measured parameters -model depended | Voltage: 100 to 277 Vac phase-to-neutral, 45 to 65 Hz Current: CTs 63, 125, 300, 400, 600 A Rogowski coil for 600A-2000A per phase |
| Accuracy | <1% of reading measurement error |
| Build-in data log record | 3.000 recordings, time period depends upon reporting interval |
| Extra features / functionalities | External relay control, Programmable scheduling, Neutral Detection indication contact, RCD/MCCB tester |

| Wireless coverage | Zigbee mesh topology, Wi-Fi or NB-IoT coverage |
|---|---|
| Dimensions | 30 x 80 x 69.6 ( WxHxD ) in mm |
| Operating environment & protection | Temperature: -20° C to 65° C, Relative Humidity: 10% to 90% (RH), non-condensing, CAT III 300 V |

*1   Total Cost of Ownership
*2   Please contact info@meazon.com for more information