



IQ0102065BNEM02+D

Direct 1-phase 65A meter

- > Plug and play LTE Cat-M communication module with GPRS fallback.
- > Compliant with DLMS/COSEM and MID
- > Improve revenue and energy efficiency with advanced measurement and tariffication.
- > Remote authenticated firmware upgrade.
- > Protected from fraud or tampering.
- > Alarm and events record.
- > P1 port to push data in accordance with DSMR 5.0.2.
- > Accurate clock and daylight-saving time supported.
- > Remote controlled disconnecter

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Main features

Measurement and power quality

- > Energy registers: active energy, reactive energy, and apparent energy in four quadrants.
- > Rated energy registers: energy values per tariff rate.
- > Demand: (rated) demand and maximum demand registers with configurable maximum demand integration period (typically 5, 15, 30 or 60 minutes).
- > Instantaneous/average active, reactive and apparent power
- > Instantaneous net frequency, power factor, voltage (rms) and current (rms).
- > The measurement resolution is 1Wh/varh/VAh

Tariffs

- > Programmable 2 sets of tariff structure, with 4 seasons, 4 weeks, 4 days and 8 Time-Of-Use tariffs
- > 30 special days tariffs
- > 13 months of billing history available; cumulative (re)active energy import & export

Profiles for energy and power quality

- > 55 days logging of cumulative active energy, import and export with a capture period of 15 minutes.
- > 31 days logging of cumulative active energy, import and export for rate 1 and rate 2, with daily captures.
- > 15 days logging of cumulative active energy import and export with 10 minute captures.
- > Periodicity and channels of the profiles are programmable.

Communication interface

- > Remote communication to HES via modular LTE Cat-M / GPRS communication module.
- > P1 port with RJ12 connector to push data to customer's device (DSMR 5.0.2).
- > Local communication via optical port.

Firmware upgrade

- > Remote authenticated firmware upgrade.

Real time clock

- > Accuracy according to EN62054-21
- > Daylight saving time supported.
- > Remote and local synchronization available.
- > RTC retention during power outages (5 days).

Display

- > LCD without backlight.
- > With Obis codes and icons.
- > Two programmable display modes (auto scroll and manual scroll).
- > LEDs on the WAN communication module to indicate the communication status.
- > Two LEDs for active and reactive energy pulse output.

Anti-tamper features

Detection and alarming for:

- > Main and terminal cover open detection (regardless of meter power status)
- > Access attempt with incorrect credentials.
- > Magnetic field tampering.
- > Phase sequence reverse detection.
- > Inverse current detection.

Event record

- > Up to 255 kinds of event records with timestamp such as:
 - > Long / short term power failure.
 - > Tampering events.
 - > Firmware upgrade events.
- > Remote Communication session log in 1 year

Privacy and security

- > DLMS Low Level Security
- > DLMS High Level Security 5 (AES/GMAC).
- > Data encryption and authentication.
- > Encryption Key-wrapping.

Technical specifications

Reference standard

- > EN 50470-1, EN 50470-3, IEC 61008-1, IEC 62059-31/41, IEC 62052-11, IEC 62053-21/23; IEC 62056-21/46/53/61/62, EN 55022

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