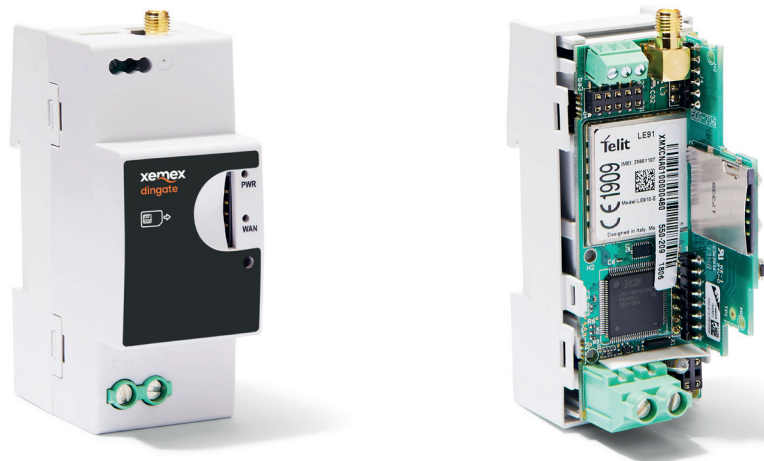


DNG 1.0 – DIN Gate DSO Communication module for ABB B21/B23 E – meter

The module is mains-powered and can be mounted in a standard DIN cabinet.



Product overview

The DNG – DIN Gate DSO communication module is a DIN-sized communication module which enables remote readout of ABB B21/B23 type E-meters using LTE Cat-1 and / or GPRS.

The module is mains-powered and can be mounted in a standard DIN cabinet. A slide-in slot on the front for the SIM card enables easy installation. The device has a standard SMA connector to mount an external antenna. Status indicators on the front panel provide users with visual indication of the module's operation. The optical interface on the side of the DNG – DIN Gate DSO interfaces with the ABB B21 or B23 E-meter. Alternatively, the communication module can also be connected using a 2 wire Modbus connection (RS485).

The unit supports the industry-standard protocol DLMS-COSEM for the WAN connection. This protocol enables also secure firmware update functionality.

The DNG – DIN Gate DSO is ideal for companies looking for a cost-effective, easy-to-use and easy-to-manage compact remote readout solution for ABB B21 or B23 E-meters.

Features

- LTE Cat-1 or GPRS WAN connectivity
- Front panel SIM slide-in slot (2FF)
- External antenna connector
- RTC backup
- ABB E-meter B21/B23 compatible
- DLMS WAN protocol
- M-bus over IR
- Modbus over RS485

Technology

Physical Characteristics

- Housing: DIN 43880 / 2 units
- Weight: 106 gr
- Dimensions: 90 x 36 x 65 mm

Local interfaces

- RS485 (2-Wire + GND)
- Optical IR interface

WAN interface

- LTE Cat-1 (Bands: B1, B3, B7, B8, B20)
- GPRS (900/1800 MHz)

Sim card connector

- Mini Sim (2FF) 25x15mm

Antenna connector

- SMA Female on housing

LED indicators

- Power / Meter connection indication
- WAN connection indication

Environmental Limits

- Operating Temperature: -20/+70°C
- Storage Temperature: -40/+70°C

Power requirements

- 230Vac/ 50 or 60Hz

Standards and Certifications

- Safety: IEC 60950-1
- EMC: EN 55016-2-3 EN 55016-2-1
EN 61000-3-2 EN 61000-3-3
EN 61000-4-2 EN 61000-4-3
EN 61000-4-4 EN 61000-4-5
EN 61000-4-6 EN 61000-4-11