

NTA 2.1 – 2G Smart Meter communication module

Designed for the Landis & Gyr E350 meters and fits into a mono-phase and a multi-phase meter.



Product overview

Xemex's product line includes a range of versatile Smart Meter data communication modules, each designed with both grid operators and end users in mind. Our NTA 2.1 communication module is no exception. The communication module is designed for the Landis & Gyr E350 meters and fits into a mono-phase and a multi-phase meter.

A secure local maintenance interface on the E-meter provides direct access to the module (P0).

All our modules are mains-powered and come optionally equipped with a customer data port (P1), allowing end users to access their energy consumption data, should our clients choose to enable this option.

The unit supports the industry-standard protocols M-Bus EN 13757-(2-4) (P2) and DLMS-COSEM (P3).

Data exchange with the acquisition system is realized via GSM-GPRS technology. The data collection from peripheral energy meters relies on wired or wireless M-Bus technology.

Status indicators on the front panel provide users with visual indication of the module's operation.

A configuration and maintenance tool allows authorized personnel to conveniently, quickly and securely manage the devices on the network.

The tool is a remote (P3) and local (P0) management solution that offers configuration, provisioning and troubleshooting for a wide range of products including Xemex's Smart Meter data communication modules.

The NTA2.1 – 2G communication module is ideal for companies looking for a cost-effective, easy-to-use

Technology

General

- Start-up message on power-on
- Real-time clock + calendar
- Clock sync during communication session
- Tamper detection
- Logging of events, errors and alarms
- Firmware remote upgradeable
- 4 M-Bus data channels
- Application based on DSMR 2.3+

AMR

- Security: AES-128 DLMS/M-Bus compliant
- Actual meter reads:
 - index registers in kWh
- Periodic meter reads:
 - 15-min intervals for 10 days
 - Storage for 40 daily reads
 - Storage for 13 monthly reads
- Calendar-based data logging
- Tariff control settings (day/night switching)

Interfaces - Data ports

- P1 - Customer data port *
- P2 - Wired/wireless M-Bus LAN connectivity *
- P3 - WAN : GSM GPRS (900MHz - 1800MHz)
- Internal antenna and external antenna connector
- SIM card holder *

Technical specification

- Operating voltage:
 - Mains: 85V -> 265V
- Power consumption:
 - Mains: 0.3W -> 2.75W max
- Temperature range:
 - -25°C -> 70°C
- Dimensions:
 - HxWxD (mm): 32 x 124 x 93.5
- Housing:
 - Compliant with L+G E350 meters

Optional

- P1 - RJ11 connector in meter cover
- Onboard SIM chip
- P2 - Wireless M-bus mini master for 4 devices