

# NTA 5.0XC 3G/3G Smart Meter communication module

The module is designed to fit into a standard Kamstrup Omnipower E-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 5.0XC 2G/3G communication module is no exception. The module is designed to fit into a standard Kamstrup Omnipower E-meter.

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

The unit supports the industry-standard protocol DLMS-COSEM (P3) and optionally M-Bus EN 13757-3&4 (P2). Data exchange with the acquisition system is realized via an IPv4 connection over 3G technology. A 3G fallback is available for the WAN connection.

An optional extra relay contact enables calendar based switching of an external device.

It is ideal for companies looking for a cost-effective, easy-to-use and easy-to-manage solution that simplifies firmware update, configuration and provisioning.

## Technology

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### General

- Real-time clock + calendar
- Clock sync during communication session
- Tamper detection
- Logging of events, errors and alarms
- Firmware remote upgradeable
- Application based on SMR5 specification

### 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
- Definable load profile: 960 entries w/ 20 values each
- Calendar-based data logging
- Tariff control settings (day/night switching)

### Interfaces - Data ports

- 3G with 2G fallback for WAN connectivity
- Supported frequency bands: 1, 3 & 8
- PAP or CHAP authentication
- Internal antenna and external antenna connector
- Local maintenance interface through optical port of the E-meter (P0)

### Technical specification

- Operating voltage:
  - Mains: 230V
- Power consumption:
  - Mains: 0.3W -> 4.5W max
- Temperature range:
  - -40°C -> 70°C
- Dimensions:
  - HxWxD (mm): 125 x 43 x 35
- Housing:
  - Compliant with Kamstrup Omnipower meters