

TECHNICAL DATA

Display and entry

- Intuitive menu navigation using 2 keys

Languages

- Italian, English,
other languages available on request

Local communication

- Optical, bidirectional IEC 62056-21 port (DLMS/COSEM)

Wide area network communication

- NBloT in accordance with UNI-TS 11291
- Protocol: DLMS/COSEM
- Supports Supports Band 3,8 and 20

Temperature compensation

- Supports electronic temperature compensation

Scope of application

- Residential and commercial gas meters (BK-G..ETeB, G1.6 to G25)
- Permitted gases: natural gas, town gas, propane, butane; gases of the first to third families pursuant to DIN EN 437:2003 (DVGW Code of Practice G260)

Degree of protection

- IP 65

Gas/ambient conditions

- Base temperature: 0 °C, 15 °C, 20 °C
- Gas temperature: -25°C to +55°C
- Ambient temperature: -25°C to +55°C
- Storage temperature: -25°C to +60°C

DATA LOGGING IN THE INDEX

The integrated data logging function records the supplied gas volume in conjunction with the current time and the corresponding tariff.

Storage capacity

- Hourly consumption values: 4560 records (\pm 190 days)
- Daily consumption values: 190 records
- Monthly consumption values: 13 records
- Metrological log: 500 records
- Event log: 300 records
- Parameter monitor log: 50 records
- Supports daily transfer of hourly values

Actuation of an integrated valve

- Safe switching of the valve (valve is not opened unless the installation is in a safe state)
- Local confirmation required by the press of a key/PIN
- Feedback on successful opening and closing
- Designed lifetime: 3000 cycles
- Max. operating pressure for valve operation: 100 mbar
- Pressure loss of BK-G4 according to EN 1359: < 2 mbar
- Maximum leakage rate in closed state: 1 l/h up to 100 mbar

Current approvals

- MID Class 1.5, EN 1359, ATEX:  II -/3 G ic c IIB T4 Gc, CE, EMC, RED

Delivery

- Minimal installation work as the devices are pre-configured on delivery
- No programming unit or the like is required for installation depending on the pre-configuration settings
- Simple commissioning by “one-key” connection to the meter data collection system or alternatively via pre-configurable start date

DATA SECURITY AND DATA PROTECTION

- The themis^{®uno} provides secure state-of-the-art end-to-end data encryption.
- Supports symmetric encryption using AES-128 (GCM) according to UNI-TS 11291.
- Role-based access rights based on individual symmetric keys.
- Future-safe using secure firmware update according to UNI-TS 11291.
- Notification to the data collection system if a tamper attempt is detected.
- Daily transmission of status reports with the ability to read event logs remotely.
- Communication triggered by configurable events like tampering, high flow rate.

For more information

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