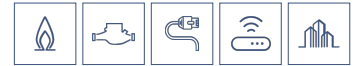# BGZcoder® MP AE5

Diaphragm gas meter

Your benefits

- Mechanical roller register with up to 1 liter resolution:
  Efficient consumption monitoring in smart metering applications

- Multiprotocol = modularity:
  Security of investments for future applications

- Batteryless register:
  No service life restriction

- No programming required when commissioning the meter in a readout system:
  Easy and fast on-site installation

- Separate seals for meter register and connecting module:
  Suitable for retrofitting in situ w/o limit to validity of meter calibration

Applications

- Diaphragm gas meters for Smart Ready and Smart Metering installations

Properties

- Optoelectronic readout of original mechanical meter reading

- Pre-assembled cap for protecting the connecting terminals

- Protection class IP54

- CE Conformity according to European Measuring Instruments Directive (MID)

Options

- Connecting modules [ACM]
  - ACM 5.5 SCR
  - ACM 5.2 M-BUS
  - ACM 5.1 ECO (for connecting to radio module RCM®-LRW...)
  - ACM 5.1.1 ECO (for connecting to radio module RCM® split)

Technical Data

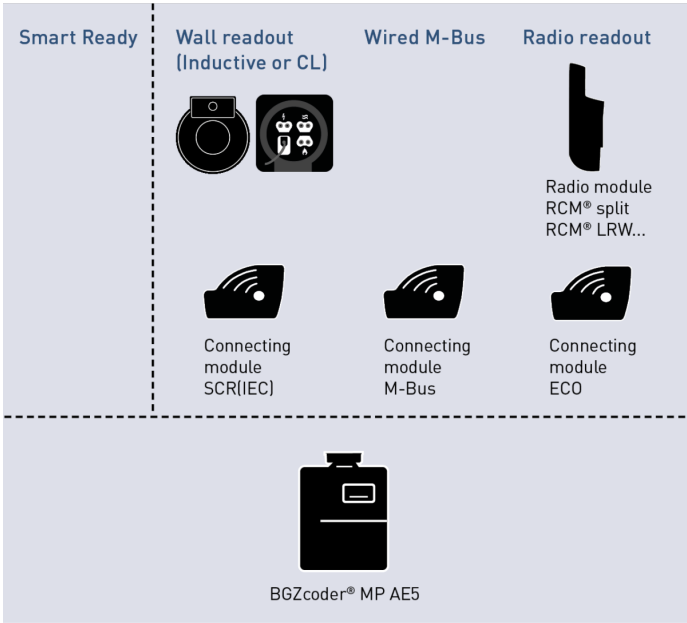| No. of rollers	8 scanned
Temperature range	-25 to +55 °C
Protection class	IP54
Interfaces	SCR(IEC), M-Bus (EN 13757-2/3), ECO for connecting to radio module, i.e. Wireless M-Bus acc. OMS (EN 13757-4)
Meter types	Suitable for BK-G 2,5(T) to G 100(T) diaphragm gas meters

Typical application

The BGZcoder® MP AE5 is easy to install directly in situ without the need for programming, regardless of whether the communication is to take place via SCR(IEC), M-Bus or low-power ECO interface (for radio connecting). The connecting module required is easily fitted (plug & play) to the BGZcoder® MP AE5. Separate seals to the meter register and the connecting module enable the interface to be changed easily without affecting the metrological part of the diaphragm gas meter. Therefore, the multiprotocol solution ensures the necessary modularity and guarantees that today's decisions are still valid tomorrow. With contactless optoelectronic readout, the data record transmitted always matches the manual reading. The BGZcoder® MP AE5 functions reliably without a battery and is protected against electromagnetic influences and mechanical manipulation
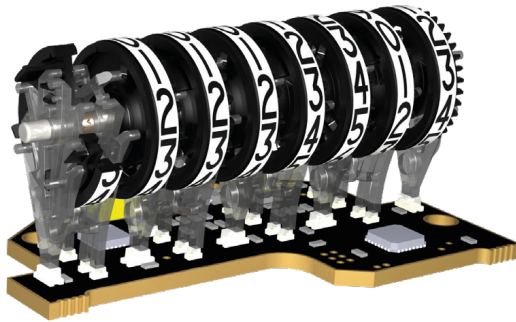
Phase 0 - Smart Ready

GWF's Smart Ready concept offers maximum security for your investments. The BGZcoder® MP AE5 can already be incorporated in regular meter replacement schedules and can also be used for manual readouts. The meter is already fitted with an electronic data interface. It is not necessary for the provider to decide at this stage whether wired or wireless readouts are required in the future.

Phase 1 – Mobile «Drive-by» and
Phase 2 – Smart Metering

During a later «drive-by» or Smart Metering rollout, the multiprotocol feature means that Smart Ready meters already installed can be migrated to the readout infrastructure. The connecting module allows the communication to be set up for SCR(IEC), M-Bus or ECO via «plug & play». Yesterday's Smart Ready meter therefore quickly and easily becomes the central component in tomorrow's Smart Metering system.

Type BGZcoder® MP AE5	meter reading	Readout m^3
G 2,5 – G 6	1 2 3 4 5,6 7 8	1 2 3 4 5,6 7 8
G 10 – G 65	1 2 3 4 5 6,7 8	1 2 3 4 5 6,7 8
G 100	1 2 3 4 5 6 7,8	1 2 3 4 5 6 7,8

GWFcoder®-Technology

Absolut gas and water meter readings at the speed of light

GWFcoder® meter registers have been successfully used in Smart Metering systems for more than 10 years already. Users benefit from several advantages, such as the absolute meter reading, the «plug & play» function with readout infrastructure, the zero maintenance operation and the standardised interfaces.

In use worldwide

GWF develops many innovative solutions in collaboration with major international partners. Our network allows us to exploit synergies and share research findings in order to maximise the efficiency and smart features of our solutions for the future. There are millions of examples of GWFcoder® technology in use worldwide.