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1000063767-002-27 Honeywell DE, EN, FR, NL, IT, SK, RU, ES, RO, SR, ČS, PT → www.docuthek.com

Operating instructions **Diaphragm gas meters** BK-G1.6 to BK-G25



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BK-G1.6 to BK-G25	
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Safety

Please read and keep in a safe place

Please read through these instructions carefully before installing or operating. Following the installation, pass the instructions on to the operator. This unit must be installed and commissioned in accordance with the regulations and standards in force. These instructions can also be found at www.docuthek.com.

Explanation of symbols

•, 1, 2, 3 ... = Action ⊳

= Instruction

Liability

We will not be held liable for damage resulting from non-observance of the instructions and non-compliant use.

Safety instructions

Information that is relevant for safety is indicated in the instructions as follows:

Indicates potentially fatal situations.

Indicates possible danger to life and limb.

! CAUTION

Indicates possible material damage.

All interventions may only be carried out by qualified gas technicians. Electrical interventions may only be carried out by qualified electricians.

Conversion, spare parts

All technical changes are prohibited. Only use OEM spare parts.

Changes to edition 04.21

The following chapters have been changed:

- Checking the usage
- Installation
- Technical data
- Declarations of conformity

Checking the usage

Diaphragm gas meters BK-G1.6 to G25

Residential or commercial diaphragm gas meters BK for recording gas consumption values for natural gas, town gas, propane and butane, as gases of the first to third families pursuant to DIN EN 437:2003

(DVGW Code of Practice G260). If used for internal measurements which are not subject to statutory testing, the gas meter is also suitable for hydrogen, nitrogen, air and inert gases.

The meters are designed for use in air at normal atmospheric conditions. For use in other environments, please contact the manufacturer (see also page 5 (Installation)).

BK with integrated valve

Not suitable for highly contaminated gases, e.g. town gas.

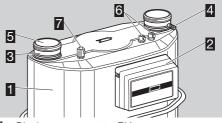
Potentially explosive atmosphere

Diaphragm gas meters that are labelled with CEand O (see sticker near the index) are suitable for operation in potentially explosive atmospheres, see page 11 (Declarations of conformity).

The meter function is only guaranteed when used under the specified operating conditions – see page 9 (Technical data). Any other use is considered as non-compliant.

Type code	9
Code	Description
BK-G	Diaphragm gas meter
	Flow rate
1.6	0.016–2.5 m ³ /h
2.5	0.025–4 m ³ /h
4	0.04–6 m ³ /h
6	0.06–10 m ³ /h
10	0.1–16 m ³ /h
16	0.16–25 m ³ /h
25	0.25–40 m ³ /h
М	Mechanical index
С	Chekker mechanical index
Α	Absolute ENCODER index
E	Electronic index
	Temperature conversion:
т	mechanical
Те	electronic
тв	mechanical-electronic temperature
	conversion and pressure correction
TeB	electronic temperature conversion and
	pressure correction

Part designations



- 1 Diaphragm gas meter BK
- Index with index plate
- Connectors
- Pressure test point to BS4161 (optional)
- 5 Protective caps
- 2 x thermowells (optional)
- **7** Pressure test point with sealing sleeve (optional)

Type label/Index plate

Please quote for all enquiries:

- ▷ The manufacturer's serial number S/N can be found at the bottom of the type label.
- The customer identification number is under the barcode.
- Indicated volume:
 - V: volume at metering conditions
 - V_{tb}: converted volume to base temperature t_b
 - V_b: converted volume to base conditions (pressure and temperature)

General:

Conformity mark (example)

- for the EU market and Northern Ireland:



M22]: Metrology mark and year (YY) 0102: Number of the notified body (in this case for PTB)

for Great Britain:



M22: Metrology mark and year (YY) 0086: Number of the approved body (in this case for BSI Assurance UK Ltd)

- ▷ In some cases, more than one number may be listed for the notified or approved bodies.
- The illustrations below are examples and may feature UKCA marks as alternatives, as described above.

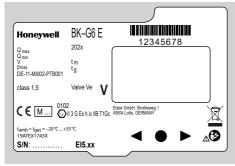
BK-G...M...

Omain DE-07-MINOCO-PTB001 Pmax Lsg 1.5 ↓ 0 ↓ 0 ↓ 0 ↓ 0 ↓ 0 ↓ 0 ↓ 0 ↓ 0 ↓ 0 ↓ 0		BK-GM	I	
р так 19 10102 NG-4701BM0443 DIN EN 1399-2007	Qmax	class 1,5	1234	5678
vm3		tg	NG-4701BM0443 [DIN EN 1359-2007
	v			m ³

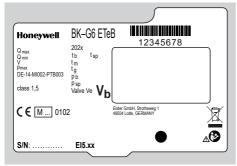
BK-G...A... with Absolute ENCODER index



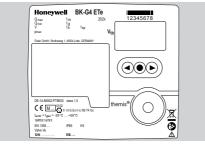
BK-G...E, BK-G...ETe with index El5.00, El5.12



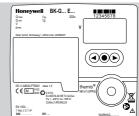
BK-G...ETeB with index EI5.02, EI5.14, EI5.15



BK-G...E, BK-G...ETe with index El6



BK-G...E, BK-G...ETe with index EI7



BK-G...E...

The following data is not necessarily specified on the type label/index plate, but can be called up in the menu:

- specified centre temperature t_{sp} (for meters with temperature conversion only),
- EN 1359 registration number (if available),
- firmware version.
- A number of variants are available for the electronic indexes. The Elx.xx ID of the index variant can be found at the bottom of the type label or on the index cover next to the serial number S/N.



EI6. ...

15 AT

Further information can be found in the supplementary operating instructions of the relevant index.

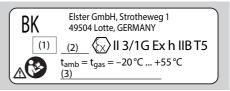
Diaphragm gas meters with integrated valve



Valve variants:

Ve = bi-stable valve with electronic flow rate testing (with electronic index El)

EX identification BK-G...M, BK-G...C, BK-G...MT, BK-G...CT Category 1 devices



Conformity mark for the EU market and Northern Ireland:

(1) CE mark and (2) Number of the notified body

(3) No. of the type examination certificate: TÜV 13 ATEX 121904 X Conformity mark for Great Britain:

(1) UKCA mark and (2) Number of the approved body UK CA 0891

(3) No. of the UKCA certificate: EMA22UKEX0021X

Use as follows:

Category, internal: 3 (Zone 2), external: 1 (Zone 0). Type of atmosphere: gases, hazes and vapours. For the ambient and gas temperatures of the ATEX Zones, see illustration.

Category 2 devices (EU market only)

BK Elster GmbH, Strotheweg 1 D-49504 Lotte, Germany C € ⟨∑ II -/2 G Ex h IIB T5 TÜV 11 ATEX 090370 X

Use as follows:

Category, internal: none, external: 2 (Zone 1). Type of atmosphere: gases, hazes and vapours.

BK-G...E with EI5.00



Conformity mark for the EU market and Northern Ireland:

 (1) CE mark: CE
 (3) Test report No.: 16ATEX1551X Conformity mark for Great Britain:

(1) UKCA mark: CA

(3) Test report No.: 22UKEX1551X

Use as follows: Category: 3 (Zone 2). Type of atmosphere: gases, hazes and vapours.

BK-G...E with EI5.12



Conformity mark for the EU market and Northern Ireland:

(1) CE mark: CE
(3) Test report No.: 19ATEX1743X
Conformity mark for Great Britain:



(3) Test report No.: 22UKEX1743X

Use as follows:

Category: 3 (Zone 2).

Type of atmosphere: gases, hazes and vapours.

BK-G...E, BK-G...ETe with EI7

Ta (3	60079-46 IIB T4 Gc/Ga = –20 °C to +55 °C
EN 1359	
$1 \text{ Imp} \triangleq 0.1 \text{ m}^3$	
S/N: EI7	

Conformity mark for the EU market and Northern Ireland:

(1) CE mark and (2) Number of the notified body



(3) No. of the type examination certificate: CSANe 21ATEX9022X

Conformity mark for Great Britain:

(1) UKCA mark and (2) Number is omitted (gap closed)



(3) No. of the UKCA certificate: CSAE 21UKEX9373X

Use as follows:

Category, internal: 3 (Zone 2), external: 1 (Zone 0). Type of atmosphere: gases, hazes and vapours. For the ambient and gas temperatures of the ATEX Zones, see illustration.

BK-G...ETe with EI6 (EU market only)



EN-4

Use as follows:

Category, internal: none, external: 3 (Zone 2). Type of atmosphere: gases, hazes and vapours.

Installation

A WARNING

Please observe the following to ensure that neither persons nor the gas meter are damaged during installation and operation:

- Note the max. allowable operating pressure p_{max} and measuring range Q_{max}, see page 2 (Type label/Index plate).
- Note the permitted ambient temperature t_m and gas temperature t_g, see page 2 (Type label/ Index plate) or page 9 (Technical data).
- The gas meters are certified for mechanical environments pursuant to Class M1 of Directive 2014/32/EU. When installed, the meters must not be subject to permanent vibration such as that caused by machines in the vicinity. In case of doubt, vibration isolation must be provided. For gas meter versions BK...A and BK...E, Class E2 for electromagnetic environments also applies.
- The dangers of chemical reactions between gas meter parts and the chemical substances in the environment are to be discussed by the manufacturer and the operator and must be eliminated.
- When installing the diaphragm gas meter BK with integrated valve, make sure that no dirt particles get into the meter and thus into the valve.
- The yellow sealing sleeve protects the pressure test point on the gas meter. It may only be opened for connecting a pressure measuring line.
- Use seals made from tested materials. Elastomer seals or asbestos-free flat seals from Elster are recommended.
- Only use the seals once.
- For meters resistant to high temperatures, only use seals tested to be resistant to high temperatures.
- The high temperature resistance is tested exclusively under EN 1359 at 100 mbar, even if the operating pressure p_{max} is specified as higher.
- For installation and operation, note the applicable national regulations and the directives of the gas supply company. For Germany, the valid DVGW Code of Practice G600 (DVGW-TRGI) applies.
- Avoid subjecting the unit to mechanical stress and prevent damage. Gas meters must be installed without any mechanical stress, preferably only by suspending them on the connectors. When using additional clamps, it must be ensured that no lateral forces act on the gas meter. These can be avoided by using flexible or supple connection lines, for instance.

Meters with 🐼 marking

- Work on meters and the installation of meters which are marked with 🐼 and are installed in potentially explosive atmospheres may only be carried out by persons with appropriate qualifications.

- The non-metallic housing of the EI7 may generate an ignition-capable level of electrostatic discharge. Therefore, the device shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. This is particularly important if the device is installed in a Zone 0 location.
- If the calibration seal has been damaged or removed, the gas meter is no longer approved for measurements which are subject to statutory testing.
- If the gas meter is stored or installed outdoors, protect the site against rain. Condensing humidity is permitted.
- Meters which are marked with H3 are suitable for installation outdoors without additional protection.
- **1** Remove protective caps.
- Installation in the vertical position: connectors must be pointing upwards.
- ▷ Note direction of flow (arrow).
- ▷ The gas meter must not be in contact with masonry or other parts.
- ▷ Ensure that there is sufficient installation space.
- ▷ Ensure unobstructed view of the index.
- ▷ The seal faces on the screw unions must be clean and damage-free.
- Ensure that the seal is correctly seated. Co-axial meters:
- The seal must be centred over the internal diameter.

i	2 2	1
E	E.SD)	
C		
	A A	

When using an elastomer seal, always use a pressure ring (shape A). ⊳ Note the installation position of the pressure ring. The inner beaded edge must point upwards.



Ľ

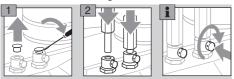
Replace damaged pressure rings when replac-⊳ ing the meter.

Co-axial and two-pipe meters:

- For the compression of seals and the resulting tightening torgues for the screw unions, the seal manufacturers' specifications must be observed. Tightening torgues for the recommended flat seals in conjunction with screw connectors pursuant to DIN 3376-1 and 3376-2, see www.docuthek.com \rightarrow Elster-Instromet \rightarrow Products \rightarrow Gas measuring devices \rightarrow Diaphragm meters → Ergänzung für Betriebsanleitung BK, Verschraubungen und Anzugsmomente für BK-G1,6 bis BK-G25 (Supplement to BK operating instructions, Screw unions and tightening toraues for BK-G1.6 to BK-G25) (D).
- **2** Install the gas meter free of mechanical stress.
- ▷ If a pulse transmitter IN-Z6x is used for pulse tapping on the gas meter marked with $\langle \Sigma \rangle$ – see Data sheet for pulse transmitter IN-Z6x (D, GB) → www.docuthek.com \rightarrow Elster-Instromet \rightarrow Products \rightarrow Gas measuring devices \rightarrow Diaphragm meters → Pulse transmitter IN-Z6x and the standard EN 60079-14 (Explosive atmospheres).

Temperature test point

Temperature sensors can be inserted into the ⊳ thermowells for measuring the gas temperature in the meter housing.



3 Secure each of the temperature sensors using the capstan screw provided.

Pressure test point on housing (optional)



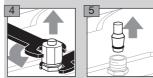
Connecting the piping

🗥 WARNING

In order to ensure that the gas meter is tight:

- The pressure test nipple must not be twisted, bent, or otherwise manipulated.
- When installing, always secure the pressure test nipple using a suitable spanner.
- Functional safety and reliability are ensured only if ⊳ the material combination of the screw connector and the pressure line are inter-matched.
- Only use the olive and the attached union nut ⊳ supplied. The olive is secured to the sealing sleeve.
- When re-ordering, use original Parker EO progressive ring fittings PSR/DPR.

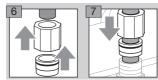








Install pipes free of mechanical stress. ⊳



- 8 Screw on the union nut by hand as far as it will ao.
- At the same time, press the end of the pipe firmly ⊳ against the stop.
- 9 Mark the position of the union nut and tighten with about 11/2 turns.



 \triangleright When reinstalling, the union nut will be turned to the original position and then further tightened through approx. 30°.

10 Once the installation and tightness test are complete, see page 7 (Tightness test), protect the pressure test point against external access with the sealing sleeve and the seal.

Pressure test point on outlet connector (optional)

BS4161-compliant pressure test nipple



- ▷ Use a 10 mm spanner to release/tighten the test point screw.
- ▷ The test nipple is secured to prevent it turning with the screw.

Opening the test nipple

- 1 Remove the screw from the test nipple completely.
- ▷ The gas connection is open.

Closing the test nipple

- **1** Insert the screw by hand as far as possible.
- Tighten the screw with a torque of 3 Nm + 0.5 Nm.
- Check for tightness, see page 7 (Tightness test).

A WARNING

If the test nipple has unexpectedly come loose, the gas meter must be regarded as damaged and must be replaced.

Tightness test

- Check the pipework for leaks prior to installation of the gas meter, in case the pipework is tested with a greater test pressure than the max. allowable operating pressure p_{max} for the gas meter. Otherwise, the installed gas meter may be damaged.
- If a valve is integrated in the diaphragm gas meter BK, see page 3 (Diaphragm gas meters with integrated valve), this must be opened for the tightness test.
- ▷ Ensure the customer's consumers are closed.
- 1 Apply the test pressure slowly to the gas meter.

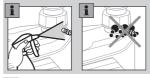


If a pressure measuring line has been retrofitted to the diaphragm gas meter, check this connection for tightness.



E

If the BS4161-compliant test nipple on the meter has been opened and then closed again, check this connection for tightness.



3 After the tightness test, slowly vent the gas meter.

4 If a pressure measuring line has been retrofitted to the diaphragm gas meter, protect the pressure test point against external access with a sealing sleeve and a seal.

Commissioning

Once the tightness test has been successfully completed, the gas meter is ready for operation.

Slowly open the manual valve.

Interfaces

Diaphragm gas meters BK are equipped with different interfaces, depending on the index version. Only original Elster spare parts may be used in the following cases:

- if devices are marked with $\langle \! \! \bigotimes \! \! \rangle$,
- if metrological data subject to statutory control is transferred via the interface.
- For statutory, metrological use, add-on components must be sealed. Permitted accessories, see page 9 (Accessories).

BK-G...M with mechanical index

For pulse tapping, the pulse transmitter IN-Z6x can be connected. For further information regarding usage and the interface – see Data sheet for pulse transmitter IN-Z6x \rightarrow www.docuthek.com \rightarrow Elster-Instromet \rightarrow Products \rightarrow Gas measuring devices \rightarrow Diaphragm meters \rightarrow Pulse transmitter IN-Z6x.

The following safety instructions apply for meters which are marked with $\langle \! \! \bigtriangleup \! \! \rangle$ and fitted with a pulse transmitter IN-Z6x:

- Only for connection to intrinsically safe electrical circuits, see page 9 (Technical data).
- If the intrinsically safe electrical circuit is grounded from a technical-safety point of view, the intrinsically safe equipotential bond must cover the entire area of installation.
- EN 60079-14 is to be noted when installing pulse transmitters.
- The intrinsically safe electrical circuits of pulse transmitters IN-Z61 and IN-Z64 are considered to be grounded at voltages > 10 V, if the plug connector housings are connected to the ground potential.
- The intrinsically safe electrical circuits of pulse transmitters IN-Z61, IN-Z62 and IN-Z65 are to be considered as non-grounded.

BK-G...A with Absolute ENCODER AE3, AE5 and communication module ACM

If the diaphragm gas meter BK-G...A is fitted with communication module ACM, you can find further information ...

- for commissioning in the Communication module ACM M-BUS WIRE or ACM SCR+ WIRE... operating instructions (D/GB/SK/NL) → www.docuthek.com → Elster-Instromet → Products → Smart metering → ACM: communication modules.
- on the protocols in the corresponding documents at www.docuthek.com → Elster-Instromet
 → Products → Smart metering → AE: protocol variants.

BK-G...E, BK-G...ETe(B) with electronic index

For further commissioning of diaphragm gas meters with electronic index-see the operating instructions of the respective electronic indexes \rightarrow www.docuthek.com \rightarrow Elster-Instromet \rightarrow Products \rightarrow Smart metering \rightarrow Electronic index.

BK-G... with RFID passive tag

- Under standard EN 60079-14, they must not be used in an environment with high electromagnetic fields with an effective value of over 1 A/m or 3 V/m.
- The RFID devices required for reading must be certified separately for the appropriate explosion-hazard areas or may only be used in safe areas.
- The transmission rating of the RFID readers must not exceed the maximum limits set out in EN 60079-14.

Diaphragm gas meters BK with integrated valve

In the event that the diaphragm gas meter BK is fitted with an integrated valve, see page 3 (Diaphragm gas meters with integrated valve) for designation, the gas supply can be connected or disconnected remotely.

Unless otherwise agreed, the valve is open on delivery as standard.

A WARNING

- The grid operator is responsible for the safe remote shut-down and restart of the diaphragm gas meter.
- The integrated valve does not assume the functions of a safety shut-off valve.
- Should the diaphragm gas meter BK be ordered with a valve, but without control electronics to be complemented by a third party, the technical data of the control interface is to be requested from Elster GmbH and observed.
- The manufacturer of the control electronics is responsible for creating the conditions required for safe operation of the valve. Instructions on commissioning and operation are to be taken from the operating instructions for the control electronics.

... with valve variant Ve

Notes on the function can be found in the operating instructions of the electronic index. Technical data, see page 9 (Technical data).

Maintenance/Removal

Gas meters BK-G1.6 to 25 from Elster are maintenance-free (constraints for BK-G...E...).

- When used for custody transfer measurements, recalibration must be carried out in accordance with national directives.
- ▷ If the screw unions are loosened for maintenance work or retesting, replace the seals.
- After the gas meter has been removed, immediately close the connectors with protective caps in order to prevent ingress of dirt particles.
- For meters with electronic indexes (BK-G...E...), it may be necessary to change the battery, see "Operating instructions for operators and installers" for the corresponding electronic index.

🛆 WARNING

A certain amount of gas may remain in the gas meter. Taking into consideration the risk of explosion, it is important to adopt safety measures, e.g.:

- Following removal of the gas meter, purge it thoroughly with inert gas.
- For transporting the gas meter with gas residue, use a vehicle with an open or a ventilated loading area.

- The indexes must not be opened in an explosion-hazard area even for maintenance and repair. For opening the service cover on the electronic index, e.g. to change the battery, see "Operating instructions for operators and installers" for the corresponding electronic index.
- Meters which are installed in a potentially explosive atmosphere may only be cleaned using a damp cloth to avoid static electricity charge.

Accessories

We recommend using Elster GmbH accessories only.

Pulse transmitters of the IN-Z6x series

- \triangleright Also for devices which are marked with $\langle \overline{x} \rangle$ **IN-Z61** (Part No. 32319615) Retrofit kit with connection cable -Order No. 72910109 Retrofit kit without connection cable -Order No. 72910114 IN-Z62 (Part No. 32319616) Shipping unit – Order No. 32447303 IN-Z63 (Part No. 32319617) Retrofit kit - Order No. 72910110 Retrofit kit with cable socket - Order No. 72910112 IN-Z64 (Part No. 32319618) Retrofit kit - Order No. 72910117 IN-Z65 (Part No. 32319762) Retrofit kit - Order No. 72910180 **IN-Z68** Part/Order No. 32320278 Interface parameters, see page 9 (Technical data).
- As regards explosion protection, pulse transmitters IN-Z6x are classified as simple electrical apparatus and must thus not be marked.

Communication modules ACM for AE3 to AE5 For AE3:

- ACM M-Bus WIRE (Order No. 32906432)
- ACM SCR+ WIRE (Order No. 32906465)
- ACM IZAR RADIO COMPAKT I-Key (Order No. 04406012)
- For AE3 and AE5:
- ACM 5.1 ECO Wire (Order No. 32320346)
- ACM 5.2 M-Bus Wire (Order No. 32320347)
- ACM 5.5 SCR Wire (Order No. 32320348)

Communication modules for meters with explosion protection

Meters which are marked with \bigotimes may only be retrofitted with communication modules certified in accordance with 2014/34/EU and which correspond to the appropriate interface parameters (see page 9 (Technical data)).

Technical data

Diaphragm gas meter BK

Gas type: natural gas, town gas, propane and butane, as gases of the first to third families pursuant to DIN EN 437:2003 (DVGW Code of Practice G260). The following technical data can be found on the type label/index plate:

- max. allowable operating pressure p_{max}
- measuring range: Q_{min}/Q_{max}
- max. allowable ambient temperature range t_m
- max. allowable gas temperature range t_q*
- cyclic volume V

For meters with temperature conversion only:

- base gas temperature t_b
- specified centre temperature t_{sp}**

Only for diaphragm gas meters BK...ETeB:

- base pressure p_b
- assumed (inlet) pressure p_{sp}

Other technical data:

- transitional flow rate Q_t = 0.1 x Q_{max}
- max. allowable storage temperature range:
 -25 to +60°C
- mechanical environment class: M1
- electromagnetic environment class: E2
- high temperature resistance: tested pressure 100 mbar (EN 1359), mark "T"
- \triangleright The test pressure and p_{max} do not necessarily have to be the same.
- Observe installation conditions! See page 5 (Installation).

Supplementary notes:

- If operated within the gas temperature range, the measurement error still lies within the required error limits. If no gas temperature t_g is specified on the index plate, the following applies: t_g = t_m.
- ** The specified centre temperature t_{sp} of the BK-G...E... series meters is not stated on the index plate, but can be called up in the display using the menu.

Diaphragm gas meters BK with pressure test point

Pressure test point: 24° olive fitting to EN ISO 8434-1, L6 x M12 x 1.5-St.

Diaphragm gas meters BK with explosion protection

For meters of Category 1 which are marked with \bigotimes , the ambient temperature t_{amb} and the gas temperature t_{gas} are limited to a maximum range between -20°C and +55°C. In this case, the admissible temperatures are to be taken from the ATEX identification sticker.

The following parameters apply for meters BK-G...M, BK-G...C, BK-G...MT, BK-G...CT with pulse transmitter IN-Z6x:

IN-Z61, IN-Z62, IN-Z63, IN-Z64, IN-Z65:

 $U_{i} = 30 V$ $I_{i} = 50 mA$ $P_{i} = 250 mW$ $C_{i}, L_{i} negligible$ **IN-Z68:**

U_i = 8 V

 $I_i = 10 \text{ mA}$

Diaphragm gas meters BK with integrated valve Ve

Opening time incl. flow rate measurement: < 2 min. Opening and closing times: approx. 5 s

(max. 15 s).

Max. operating pressure for valve operation: 100 mbar.

▷ The operating pressure of the gas meter can be higher if necessary.

Leakage flow (closed): max. 1 l/h up to 100 mbar.

Declarations of conformity

Scans of all valid Declarations of conformity-see www.docuthek.com → Elster-Instromet Diaphragm gas meters BK-G...M, BK-G...C, BK-G...MT, BK-G...CT (without ATEX declaration)

Honeywell

CE	EU-Konformitätse EU Declaration of Cor		
Produkt Product	Gaszähler / Gaszähler mit eingebauter Temperaturumwertung Gas meter / Gas meter with integrated temperature conversion		
Typ, Ausführung Type, model	BK-G1,6 M – BK-G25 M BK-G1,6 MT – BK-G25 MT	BK-G1,6 C - BK-G25 C BK-G1,6 CT - BK-G25 CT	
Produkt-Kennzeichnung Product marking	CE M 0102 DE-07-MI002-PTB001 / DE-	07-MI002-PTB002	
EU-Richtlinien EU Directives	2014/32/EU - MID	2011/65/EU - RoHS (mit IN-Z6/ with IN-Z6)	
Normen Standards	DIN EN 1359:2007 (EN 1359:1998 + A1:2006)		
EU-Baumusterprüfung EU-type examination	DE-07-MI002-PTB001, Rev.11 (MID - 2014/32/EU Anhang II M Physikalisch-Technische Bund (National Metrological Institute, Notifizierte Stelle / Notified Boo	lesanstalt (PTB))	
Überwachungsverfahren Surveillance procedure	2014/32/EU Anhang II, Modul Physikalisch-Technische Bund (National Metrological Institute Notifizierte Stelle / Notified Boo Zertifikat / certificate: DE-M-AC) Jy 0102	

Wir erklären als Hersteller:

Die entsprechend gekennzeichneten Produkte erfüllen die Anforderungen der aufgeführten Richtlinien und Normen. Sie stimmen mit dem geprüften Baumuster überein. Die Herstellung unterliegt dem genannten Überwachungsverfahren.

We declare as manufacturer:

Products labelled accordingly meet the requirements of the listed directives and standards. They correspond to the tested type samples. The production is subject to the stated surveillance procedure.

Unterzeichnet für und im Namen der Elster GmbH - Signed for and on behalf of Elster GmbH

Lotte / Stará Turá, 2021-01-21

cuSigned by:

0000A256718245E

Ulrich Clasemann

DocuSigned by: Venne. BFB91967CBABAA2

Guido Temme

Leiter Entwicklung Gasmessung Director R&D Gas Metering

ed by alda 14 F4C00158EA4D496

Peter Bernhauser Betriebsleiter Standort Stará Turá Plant Director, Stará Turá site

Elster GmbH, Strotheweg 1, 49504 Lotte, DEUTSCHLAND / GERMANY

Geschäftsführer Standort Lotte

CE	EU - Konformitätserklärung EU Declaration of Conformity
Produkt Product	Gaszähler / Gaszähler mit eingebauter Temperaturumwertung Gas meter / Gas meter with integrated temperature conversion
Typ, Ausführung Type, model	BK-G1,6 M – BK-G25 M BK-G1,6 C – BK-G25 C BK-G1,6 MT – BK-G25 MT BK-G1,6 CT – BK-G25 CT
Produkt-Kennzeichnung Product marking	CE M 0102 EX II -/2 G Ex h IIB T5 DE-07-MI002-PTB001 / DE-07-MI002-PTB002
EU-Richtlinien EU Directives	2014/32/EU - MID 2014/34/EU - ATEX 2011/65/EU - RoHS 1
Normen Standards	DIN EN 1359:2007 EN ISO 80079-38:2018 (EN 1359:1998 + A1:2006) EN ISO 80079-37:2016 EN 60079-0:2012+A11:2013 EN 60079-11:2012
EU-Baumusterprüfung EU-type examination	DE-07-MI002-PTB001, Rev.11 / DE-07-MI002-PTB002, Rev.11 (MID - 2014/32/EU Anhang II Modul B / Annex II module B) Physikalisch-Technische Bundesanstalt (PTB) (National Metrological Institute) Notifizierte Skelle / Notified Body 0102
Prüfungen Tests	Konformitätsaussage TÜV Nord Statement of conformity TÜV Nord TÜV 11 ATEX 090370 X Ausgabe 01 (Edition 01)
Überwachungsverfahren Surveillance procedures	2014/32/EU Anhang II, Modul D / 2014/32/EU Annex II, module D Physikalisch-Technische Bundesanstalt (PTB) – (National Metrological Institute) Notifizierte Stelle / Notified Body 0102 Zertifikat / certificate: DE-M-AQ-PTB025
Konformitätsbewertungsve Conformity assessment proced	

[†] RoHS-Konformität nur anwendbar für Zähler mit angebauten elektronischen Komponenten (z.B. IN-Z6..., RFID-Passiv-Transponder) RoHS compliance only applicable for meters with attached electronic components (e.g. IN-Z6..., RFID passive tag)

Wir erklären als Hersteller:

Die entsprechend gekennzeichneten Produkte erfüllen die Anforderungen der aufgeführten Richtlinien und Normen. Sie stimmen mit dem geprüften Baumuster überein. Die Herstellung unterliegt dem genannten Überwachungsverfahren.

In our capacity as manufacturer, we hereby declare:

Products labelled accordingly meet the requirements of the listed directives and standards. They correspond to the tested type sample. The production is subject to the stated surveillance procedure.

Unterzeichnet für und im Namen der Elster GmbH - Signed for and on behalf of Elster GmbH

Lotte / Stará Turá, 2021-01-07

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MDCA259719285

Ulrich Clasemann

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	G. Tenne
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Guido Temme Leiter Entwicklung Gasmessung Director R&D Gas Metering

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Peter Bernhauser Betriebsleiter Standort Stará Turá Plant Director, Stará Turá site

Elster GmbH, Strotheweg 1, 49504 Lotte, DEUTSCHLAND / GERMANY

03252002 / DIS 1000330478-000-13 / ZSD

Geschäftsführer Standort Lotte

CE	EU-Konformitätserklärung EU Declaration of Conformity	
Produkt Product	Gaszähler (mit Absolut-ENCODER) Gas meter (with Absolute ENCODER) Gaszähler mit eingebauter Temperaturumwertung (mit Absolut-ENCODER Gas meter with integrated temperature conversion (with Absolute ENCODER) BK-G1,6 A – BK-G25 A BK-G1,6 AT – BK-G25 AT	
Typ, Ausführung Type, model		
Produkt-Kennzeichnung Product marking	CE M 0102 DE-07-MI002-PTB001 / DE-07-MI002-PTB002	
EU-Richtlinien EU Directives	2014/32/EU - MID 2014/30/EU - EMC 2011/65/EU - RoHS	
Normen Standards	DIN EN 1359:2007 IEC 61000-6-2:2005 (EN 1359:1998 + A1:2006) IEC 61000-6-3:2006 +A1:2010	
EU-Baumusterprüfung EU-type examination	DE-07-MI002-PTB001, Rev.11 / DE-07-MI002-PTB002, Rev.11 (MID - 2014/32/EU Anhang II Modul B / Annox II module B) Physikalisch-Technische Bundesanstalt (PTB) (National Metrological Institute) Notifizierte Stelle / Notified Body 0102	
Prüfungen Tests	Quinel AG: No. E2176-05a-16 (ACM5.1 ECO) No. E2176-05b-16 (ACM5.2 MBUS) No. E2176-05b-16 (ACM5.3 SCR) No. E2176-05a-18 (ACM5.4 LUX) No. E2176-05a-18 (ACM5.5 SCR)	
Überwachungsverfahren Surveillance procedures	2014/32/EU Anhang II, Modul D / 2014/32/EU Annex II, module D Physikalisch-Technische Bundesanstalt (PTB / National Metrological Institute) Notifizierte Stelle / Notified Body 0102 Zertifikat / certificate; DE-M-AQ-PTB025	

Wir erklären als Hersteller:

Die entsprechend gekennzeichneten Produkte erfüllen die Anforderungen der aufgeführten Richtlinien und Normen. Sie stimmen mit dem geprüften Baumuster überein. Die Herstellung unterliegt dem genannten Überwachungsverfahren.

We declare as manufacturer:

Products labelled accordingly meet the requirements of the listed directives and standards. They correspond to the tested type sample. The production is subject to the stated surveillance procedure.

Unterzeichnet für und im Namen der Elster GmbH - Signed for and on behalf of Elster GmbH

Lotte / Stará Turá, 2021-01-21

ODA298718245

Ulrich Clasemann



Guido Temme

Leiter Entwicklung Gasmessung Director R&D Gas Metering

Signed by: alda 11 F4C60155EAADebB

Peter Bernhauser

Betriebsleiter Standort Starå Turå Plant Director, Starå Turå site

Elster GmbH, Strotheweg 1, 49504 Lotte, DEUTSCHLAND / GERMANY

03252003 / DIS 1000332599-000-12 / ZSD

Geschäftsführer Standort Lotte

UK CA	UK Declaration o	f Conformity
Product Produkt	Gas meters Gaszahler	
Type, model (unique identifier) Typ. Ausführung (eindeutige Kennung)	BK-G1,6 M - BK-G25 M BK-G1,6 C - BK-G25 C	There will the West Characteristic
Product marking Produkt-Kennzeichnung	UKCA 751767	
UK Regulations UK-Verordnungen	SI 2016/1153 - MIR	SI 2012/3032 - RoHS 1
Standards Normen	BS EN 1359 1998 + A1 2006	
Type examination Baumusterprüfung	UKCA 751767 (MIR – S.I. 2016/1153, Scher BSI Assurance UK Limited, A	
Surveillance procedures Oberwachungsverfahren	S.I. 2016/1153, Schedule 1B BSI Assurance UK Limited, A Certificate no.: UKCA 751625	pproved Body 0086
Build conclusion only applicable for a	solves with attacted planter to provide	nets in a Bit We DEVP manufacture that

RoHS compliance only applicable for meters with attached electronic components (e.g. IN-26..., RFID passive tag) RoHS-Konkennität nur anwendbar für Zähler mit angebauten elektronischen Komponenten (z.B. IN-25..., RFID-Passiv-Transponder)

In our capacity as manufacturer, we hereby declare:

Products labelled accordingly meet the requirements of the listed regulations and standards. They correspond to the tested type sample. The production is subject to the stated surveillance procedure.

Wir erklären als Hersteller:

Die entsprochend gekennzeichneten Produkte erfüllen die Anforderungen der aufgeführten Verordnungen und Normen. Sie stimmen mit dem geprüften Beumuster überein. Die Herstellung unterliegt dem genannten Überwachungsverfahren.

Signed for and on behalf of Elster GmbH - Unterzeichnet für und im Namen der Elster GmbH

Lotte / Stará Turá, 2022-12-20

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800A2597112456

Ulrich Clasemann

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Guido Temme Leiter Entwicklung Gasmessung Director R&D Gas Metering

cubighed by: Se place

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Peter Bernhauser Betriebsleiter Standort Starå Turå Plant Director, Starå Turå site

Elster GmbH, Strotheweg 1, 49504 Lotte & Steinern Str. 19-21, 55252 Mainz-Kastel, GERMANY

03252025 / DIS 1000547257-000-00 / ZSD

Geschäftsführer Standort Lotte

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UK Declaratio	on of Conform	nity
Gas meters Gaszahler		
UKCA 751767	II 3/1 G Ex h IIB T5 tarre = tarre = -20°C+8	55°C
SI 2016/1153 - MIR	SI 2016/1107 UKEX	SI 2012/3032 RoHS 1
BS EN 1359 1998 + A1:2006	EN ISO 80079-36:207 EN ISO 80079-37:207 EN IEC 60079-0:2018 EN 60079-11:2012 EN 60079-26:2015	16
BSI Assurance UK Lim	ited, Approved Body 0	086
Element Materials Tech	nology Warwick Ltd, /	
	Gas meters Gaszahler BK-G10 M – BK-G2 BK-G10 C – BK-G2 BK-G10 C – BK-G2 UKCA 751767 SI 2016/1153 – MIR BS EN 1359 1998 + A1:2006 UKCA 751767 (MIR – S.I. 2016/1153, BSI Assurance UK Lim Element Materials Tect S.I. 2016/1107 (as am Element Materials Tect S.I. 2016/1107 (as am Element Materials Tect	Gaszáhler BK-G10 M – BK-G25 M BK-G10 C – BK-G25 C UK M 0086 UKCA 751767 BS EN 1359 1998 + A1:2006 BS EN 1359 1998 + A1:2006 UKCA 751767 UKEX BS EN 1359 1998 + A1:2006 UKCA 751767 MIR – S.L. 2016/1153, Schedule 1B, module BSI Assurance UK Limited, Approved Body 0

¹ ROHS compliance only applicable for meters with attached electronic components (e.g. IN-26..., RFID passive tag) ROHS-Konformität nur anwendbar für Zähler mit angebauten elektronischen Komponenten (z.B. IN-25..., RFID-Passiv-Transponder)

In our capacity as manufacturer, we hereby declare:

Products labelled accordingly meet the requirements of the listed regulations and standards. They correspond to the tested type sample. The production is subject to the stated surveillance procedure.

Wir erklären als Hersteller:

1 11/2

Die entsprechend gekennzeichneten Produkte erfüllen die Anforderungen der aufgeführten Verordnungen und Normen. Sie stimmen mit dem geprüften Baumuster überein. Die Herstellung unterliegt dem genannten Überwachungsverfahren.

Signed for and on behalf of Elster GmbH - Unterzeichnet für und im Namen der Elster GmbH

Lotte / Stará Turá, 2022-12-20

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_	- SPED INFORMALIAZ

Guido Temme

Leiter Entwicklung Gasmessung Director R&D Gas Metering

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Peter Bernhauser Betriebsleiter Standort Starå Turå Plant Director, Starå Turå site

Elster GmbH, Strotheweg 1, 49504 Lotte & Steinern Str. 19-21, 55252 Mainz-Kastel, GERMANY

Ulrich Clasemann Geschäftsführer Standort Lotte Managing Director, Lotte site

03252026 / DIS 1000547254-000-00 / ZSD

uligned by

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EN-15

	ATEX legend			Logistics
	© 		Marking of explosion protection Equipment group II for general industries (with the exception of mines)	Transport Diaphragm gas meters
EN	-/2		Category: internal: none external: Category 2 (Zone 1)	in the upright position. check that the deliver (Part designations). Re immediately.
ш	-/3		Category: internal: none external: Category 3 (Zone 2)	Storage Diaphragm gas meters
	3		Category 3 (Zone 2)	the upright position and
	3/1	=	Category:	perature: see page 9 (T
	0		internal: Category 3 (Zone 2) external: Category 1 (Zone 0)	Disposal Meters with electronic of
	G		Type of atmosphere: gases, hazes and vapours	WEEE Directive 2012 Electrical and Electro
	Ex h	=	"Constructional safety" explosion protec- tion type	At the end of the packaging and
	ic	=	Type of ignition protection: intrinsic safety for Zone 2	recycling centre with the usual d
	IIB, IIA	=	Explosion group for gases	the product.
	T1		Temperature class: maximum allowable surface temperature 450°C	On request, old units m to the manufacturer,
	T4	=	Temperature class: maximum allowable surface temperature 135°C	accordance with the re
	T5	=	Temperature class: maximum allowable surface temperature 100°C	quirements.
	Gc	_	Equipment protection level for Zone 2	
	Ta		Ambient temperature	
	t _{amb}		Ambient temperature in acc. with Directive 2014/34/EU	

= Gas temperature in acc. with Directive t_{gas} 2014/34/EU

are always to be transported On receipt of the product, y is complete, see page 2 port any transport damage

s are always to be stored in in a dry place. Ambient tem-Technical data).

components:

/19/EU - Waste onic Equipment Directive

e product life, dispose of the product in a corresponding e. Do not dispose of the unit

lomestic refuse. Do not burn

ay be returned carriage paid see page 16 (Contact), in elevant waste legislation re-

Contact

Honeywell

Germany

Elster GmbH Strothewea 1 49504 Lotte Tel. +49 541 1214-0 Fax +49 541 1214-370 customerfirst@honeywell.com www.elster-instromet.com

United Kingdom

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Ireland

Active Energy Control Ltd. Unit 4. Clare Marts Quin Road Ennis, Co. Clare Tel. +353 65 6840600 Fax +353 65 6840610 info@aec.ie www.aec.ie EN-16