



Sworn translation from Polish into English

Translator's Note: On the left margin of the 1st page of the Certificate – emblems of various institutions.

- [1] **EU-TYPE EXAMINATION CERTIFICATE**
- [2] Devices and protective systems to be used in potentially explosive atmosphere. Directive 2014/34/EU (Decree of the Minister of Development, dated 06.06.2016, Journal of Acts of 09.06.2016, pos. 817)
- [3] EU-type examination certificate (module B):
KDB 04ATEX034 **Edition 1**
- [4] The device:
Rotary Gas Meter type CGR-01; CGR-FX; CGR-01/HP
- [5] Manufacturer:
Common S.A.
- [6] Address:
67/93 Aleksandrowska St., 91-205 Lodz

- [7] The subject device or protective system, together with its approved modifications, has been described in an enclosure to the hereby certificate.
- [8] The Central Mining Institute, Notified Body No. 1453, pursuant to the Directive 2014/34/EU, dated February 26, 2014, certifies, that the device or protective system being the subject of the hereby certificate, meets the fundamental health and safety requirements concerning designing and construction of devices and protective systems to be used in potentially explosive atmosphere, mentioned in the Enclosure II of the Directive 2014/34/EU (Enclosure No. 2 of the Decree of the Minister of Development, dated 06.06.2016, Journal of Acts of 09.06.2016, pos. 817). Results of the assessment and examinations, as well as a list of the agreed documentation have been detailed in the confidential Report **KDB No. 11.081-4 [T-5041]**.
- [9] Fundamental health and safety requirements have been accomplished by fulfilment of requirements of the following standards:
EN 60079-0:2012 + A11:2013; EN 60079-11:2012; EN ISO 80079-36:2016
- [10] Placing of the "X" mark behind the certificate number means special conditions of use, provided in an enclosure to the hereby certificate.
- [11] The hereby EU-type examination certificate concerns only the structure, assessment and examinations of the subject product, pursuant to the Directive 2014/34/EU (Decree of the Minister of Development, dated 06.06.2016, Journal of Acts of 09.06.2016, pos. 817). The certificate does not include other requirements of the Directive, concerning the production process and introduction into the market of the device or protective system.
- [12] Labelling of the device should include:

Ex II 2G Ex ia IIB T5 Gb or II 2G Ex ia IIC T5 Gb

Piotr Madej, M.E.
(signature illegible)
Specialist in ATEX Certification

Round seal with the State emblem and inscription:
Central Mining Institute in Katowice
Certifying Body
Team of Product Certification
KD "Barbara" Mikolow

Rectangular seal with the inscription:
CENTRAL MINING INSTITUTE
HEAD
of the Certifying Body
Dariusz Stefaniak, D.E.
(signature illegible)

Date of issuance: 21.01.2019

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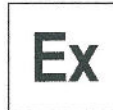
Central Mining Institute, 40-166 Katowice, 1 Gwarkow Square, Poland, www.gig.eu
(Certifying Body – Team of Product Certification – Experimental Mine "Barbara" Mikolow)
Certifying Body accredited by PCA, No. AC038

The hereby certificate can be duplicated only in its entirety, together with enclosures. The document without signatures and seals is invalid.



[13]
[14]

ENCLOSURE
EU-type examination certificate
KDB 04ATEX034 Edition 1



[15] Description:

Rotary Gas Meters type CGR-01; CGR-FX; CGR-01/HP are electromechanical pressure devices used to measure the amount gas flowing through a system. Readout of gas volume is possible with help multi-position mechanical meter and by electrical means by measurement of impulses of built in intrinsically safe sensors.

Measurement equipment of the gas meters consists of: 8- or 9-position mechanical counting mechanism, as well as transmitters of low and high frequency impulses, installed to the main body of the gas meter and/or its head. Depending on an application, the manufacturer can equip the gas meter with appropriate impulse transmitters from the below table. Moreover, gas meters can be equipped with an accessory CLFK-05 sensor or CSSB-01 by-pass state signalling device, destined for signalling of lockup of gas meter rotors.

Technical parameters:

Ambient temperature: - 25°C to +70°C

Degree of safety: IP66/IP67

Impulse transmitters applied in CGR-01; CGR-FX and CGR-01/HP gas meters and their intrinsically safe parameters	
HF1, HF2	U _i = 20V, I _i = 60mA, P _i = 200mW, L _i = 150µH, C _i = 150nF (linear characteristics of the sensor feeding circuit is required)
LFI1, LFI2	U _i = 20V, I _i = 60mA, P _i = 130mW, L _i = 350µH, C _i = 250nF (linear characteristics of the sensor feeding circuit is required)
CLFK-03 *	U _i = 15.5V, I _i = 52mA, P _i = 169mW, L _i , C _i = 0
CHF1-04	U _i = 20V, I _i = 60mA, P _i = 200mW, L _i = 150µH, C _i = 150nF (linear characteristics of the sensor feeding circuit is required)
CLFW-01 *	U _i = 30V, I _i = 52mA, P _i = 0.6W, L _i , C _i = 0
CLFW-02 *	U _i = 30V, I _i = 52mA, P _i = 0.6W, L _i , C _i = 0
CLFW-04	U _i = 30V, I _i = 52mA, P _i = 0.6W, L _i , C _i = 0
CLFK-04	U _i = 15.5V, I _i = 52mA, P _i = 169mW, L _i , C _i = 0
CLFK-05	U _i = 15.5V, I _i = 52mA, P _i = 169mW, L _i , C _i = 0
CSSB-01	U _i = 16 V; P _i = 0.3 W; I _i = 55 mA; L _i = 100 µH; C _i = 2.4 nF; U _o = 3.2 V; I _o = 1.6 mA; P _o = 1 mW; L _o = 20 mH; C _o = 2.5 µF

* Multi-circuit sensors, individual circuits are separated by electroplating. Parameters concern every circuit independently.
In case of connection of two intrinsically safe circuits separated by electroplating to the same junction, their voltage sum must be:
 $U_{i1} + U_{i2} \leq 30V$

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Certifying Body
Team of Product Certification
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ENCLOSURE
EU-type examination certificate
KDB 04ATEX034 Edition 1



[16] Examination report:

„ATEX” Assessment Report KDB No. 11.081-4

[17] Special application conditions:

None

[18] Fundamental health and safety requirements

They have been accomplished by fulfilment of requirements of the following standards:

EN 60079-0:2012 + A11:2013; EN 60079-11:2012; EN ISO 80079-36:2016

(PN-EN 60079-0:2013-03 + A11:2014-03; PN-EN 60079-11:2012; PN-EN ISO 80079-36:2016-07)

History of the document:

- EC-type examination certificate KDB 04ATEX034, dated 28.06.2004, together with supplements, edition 0, initial certification. EU-type examination certificate KDB 04ATEX034, edition 1, dated 21.01.2019, replacing the certificate KDB 04ATEX034, edition 0.

New execution of the gas meter has been introduced: CGR-01/HP – high pressure. Structural modifications have been implemented. The list of standards and documentation have been updated.

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I, Jadwiga Stolarek, a sworn English-Polish translator, entered into the Register of Sworn Translators of the Ministry of Justice under No. TP/3330/05, hereby certify the above translation and its conformity to the original document made in Polish.

Number of characters/Liczba znaków: 6874 (6 stron tłumaczenia przysięgłego)

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