IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx DEK 19.0084X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 1	Issue 0 (2020-04-09)
Date of Issue:	2024-12-02		
Applicant:	**Ashcroft Instruments GmbH** Max-Planck-Straße 1-9 Alsdorf 52477 **Germany**		
Equipment:	**Pressure / Level Transmitter GOLD SERIES PG55, GOLD SERIES CG55, GOLD SERIES PG55-Cable, GOLD SERIES CG55-Cable**		
Optional accessory:			
Type of Protection:	**Ex ia, Ex ib, Ex ec**		
Marking:	Ex ia IIC T4 Ga or Ex ib IIIC T100 °C Db or Ex ec IIC T4 Gc		

Approved for issue on behalf of the IECEx Certification Body: **L.G. van Schie**

Position: **Certification Manager**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

DEKRA Certification B.V.
Meander 1051
6825 MJ Arnhem
Netherlands

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Certificate No.: **IECEx DEK 19.0084X**

Date of issue: 2024-12-02

Issue No: 1

Manufacturer: **Ashcroft Instruments GmbH**
Max-Planck-Straße 1-9
Alsdorf 52477
Germany

Manufacturing locations: **Ashcroft Instruments GmbH**
Max-Planck-Straße 1-9
Alsdorf 52477
Germany

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

NL/DEK/ExTR19.0106/01

Quality Assessment Report:

GB/SIR/QAR10.0013/11

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Pressure / Level Transmitter GOLD SERIES PG55, GOLD SERIES CG55, GOLD SERIES PG55-Cable and GOLD SERIES CG55-Cable, convert a pressure, level or temperature signal from a sensor into a 4 - 20 mA current signal with a superimposed digital signal (HART protocol).

The GOLD SERIES PG55-Cable and GOLD SERIES CG55-Cable have an extension cable between the sensor and amplifier with a maximum length of 100 m.

For temperature range and electrical data, see Annex 1 to NL/DEK/ExTR19.0106/01.

SPECIFIC CONDITIONS OF USE: YES as shown below:
As equipment with EPL Ga may be applied directly in the process, electrostatic charging of the cable and the protection cap of Pressure / Level Transmitter GOLD SERIES-Cable by the flow of non-conductive media (e.g. in stirring vessels or pipes) shall be avoided.

Equipment with EPL Gc shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.

From safety point of view all signals are connected to earth.

For ambient temperature range and electrical data, see Annex1 to NL/DEK/ExTR19.0106/01.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Change of address of the manufacturer.

Annex:

229442500-ExTR19.0106.01-Annex1.pdf

EPL and temperature range

The relation between Transmitter Type and options, EPL, ambient temperature range and process temperature range, is shown in the table below:

Transmitter Type and Options	EPL	Temperature range
Pressure / Level Transmitter GOLD SERIES PG55, GOLD SERIES CG55, GOLD SERIES PG55-Cable and GOLD SERIES CG55-Cable (Option EX1) with transparent indicator cover (Option DG)	Ga	Ambient temperature range -20 °C to +70 °C Process temperature range -20 °C to +100 °C
Pressure / Level Transmitter GOLD SERIES PG55, GOLD SERIES CG55, GOLD SERIES PG55-Cable and GOLD SERIES CG55-Cable (Option EX3) with closed covers	Gc	Ambient temperature range -20 °C to +70 °C Process temperature range -20 °C to +100 °C
Pressure / Level Transmitter GOLD SERIES PG55, GOLD SERIES CG55, GOLD SERIES PG55-Cable and GOLD SERIES CG55-Cable (Option EX2) with closed covers	Db	Ambient temperature range -20 °C to +70 °C Process temperature range -20 °C to +100 °C

The maximum surface temperature of IP6x enclosure T100 °C is based on a maximum ambient temperature of 70 °C and maximum process temperature of 100 °C. This temperature is determined with a dust layer of maximum 5 mm.

Electrical data

Pressure / Level Transmitter GOLD SERIES PG55, GOLD SERIES CG55, GOLD SERIES PG55-Cable and GOLD SERIES CG55-Cable:
Supply/output circuit (terminals 3 '-' and 4 '+'):
Nominal working voltage U_N = 12…26.5 Vdc, nominal current I_N = 4…20 mA and P_N = 0.28 W.

Pressure / Level Transmitter GOLD SERIES PG55, GOLD SERIES CG55, GOLD SERIES PG55-Cable and GOLD SERIES CG55-Cable:
Supply/output circuit (terminals 3 '-' and 4 '+'):
in type of protection intrinsic safety Ex ia IIC, or Ex ia IIIC only for connection to a certified intrinsically safe circuit, with the following maximum values:
U_i = 26.5 Vdc; I_i = 110 mA; P_i = 0.9 W (linear source); L_i = 1.4 mH; C_i = 63 nF (without cable between terminals 3 '-' and 4 '+').