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 IBE 19.0017X**	Page 1 of 3	Certificate history:
Status:	**Current**	Issue No: 0	
Date of Issue:	2019-08-20		
Applicant:	**GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG** Fritz-Müller-Straße 6-8 74653 Ingelfingen **Germany**		
Equipment:	**Combi Switchbox type 4241**		
Optional accessory:			
Type of Protection:	**Intrinsic safety "i"**		
Marking:	Ex ib IIB T4 Gb Ex ib IIIC T120 °C Db		

Approved for issue on behalf of the IECEx Certification Body:	**Dipl.-Ing. Alexander Henker**
Position:	**Head of Certification Body**
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:

IBExU Institut für Sicherheitstechnik GmbH
Certification Body
Fuchsmühlenweg 7
09599 Freiberg
Germany

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Certificate No.: **IECEx IBE 19.0017X**

Date of issue: 2019-08-20

Manufacturer: **GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG**
Fritz-Müller-Straße 6-8
74653 Ingelfingen
Germany

Manufacturing locations:

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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

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

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:

DE/IBE/ExTR19.0019/00

Quality Assessment Report:

DE/IBE/QAR19.0001/01

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

The combi switch box type 4241 is suitable for mounting on pneumatically actuated linear drives. The position of the valve spindle is electronically recorded and reported back by means of inductive sensors (2-wire NAMUR). Integrated pilot valves enable the direct control of the connected process valve.

The combi switch box consists of separately certified intrinsically safe components or simple apparatus as terminals which are located in a common housing.

Technical data

- Ambient temperature range: 0 °C ≤ T_{amb} ≤ +50 °C
- Degree of protection: at least IP64

Intrinsically safe values:

Inductive sensor (2-wire Namur sensor)

Type:	NJ 1,5-6,5-15N
Number:	2
Nominal voltage:	8 V
Intrinsically safe values:	U_i = 16 V
	I_i = 52 mA
	P_i = 169 mW
	L_i = 50 µH
	C_i = 30 nF

Pilot valve

Type:	PICOSOL electrovalve typ 11…H110…
Nominal voltage:	12 V or 24 V DC
Intrinsically safe values:	U_i = 30 V
	I_i = 330 mA

Li, Ci negligible

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The enclosure has to be installed protected against mechanical loads.
- Dust layers > 5 mm have to be avoided.
- The intrinsically safe parameter are mentioned in the operating instructions.