IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx IBE 17.0024X

Issue No: 0

Certificate history:
Issue No. 0 (2018-09-03)

Status: **Current**

Date of Issue: **2018-09-03**

Applicant: **Bühler Technologies GmbH**
Harkortstr. 29
40880 Ratingen
Germany

Equipment: **Sample Gas Probe GAS 222.xx Ex 1**

Optional accessory:

Type of Protection: **Ex eb**

Marking:

For EPL Ga/Gb:
Ex db eb mb IIC T5/T6...T1/T2 Ga/Gb

For EPL Gb:
Ex db eb mb IIC T6...T2 Gb

For further information see typecode in annex

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

Position: Deputy Head of Certification Body

Signature:
(for printed version)

A. Henker

Date: 2018-09-03

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 the Official IECEx Website.

Certificate issued by:

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

IECEx Certificate of Conformity

Certificate No: IECEx IBE 17.0024X Issue No: 0

Date of Issue: 2018-09-03 Page 2 of 3

Manufacturer: **Bühler Technologies GmbH**
Harkortstr. 29
40880 Ratingen
Germany

Additional Manufacturing location(s):

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 apparatus 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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-26 : 2014-10 Edition:3.0	Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical 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/ExTR16.0034/00

Quality Assessment Report:

DE/BVS/QAR16.0002/02

IECEx Certificate of Conformity

Certificate No: IECEx IBE 17.0024X Issue No: 0

Date of Issue: 2018-09-03

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The sample gas probes GAS 222. xx Ex 1 are to be operated in a zone 1 and can extract from zone 0. A sample gas is transported through the gas sampling probe to an external sample gas pump and then transported to a gas analyzer. The sample gas passes through a particle filter inside the probe (type 20,21) or outside the probe (in the process, type 21, 31,35). With the ball valve it is possible to separate the probe interior from the process in order to change the filter (type 21).

The heating tape is wrapped around the probe's inner stainless steel body and is therefore not directly accessible. The sheath of the inside stainless steel bodies of probes type 20, 21, 31 and 35 consists of a combination of VA sheath and insulation, the Type 20 also has the option of an enclosure made of pure epoxy heat insulation. Furthermore, all probes are surrounded by a protective cover made of sheet steel, which can be opened for maintenance purposes, and are thus protected against external influences.

Versions 20, 21,31 and 35 can be operated with a backwash mechanism. Compressed air (or inert gas) from a reservoir (pmax=10 bar) is immediately let into the probe to remove particles from the filter (in the process). Flammable gases may only be flushed back with inert gas (e. g. nitrogen). Backwashing is not permitted for explosive gas mixtures.

For EPL Ga/Gb applications, the temperature class inside is one class lower than outside.

The probes are suitable for an ambient temperature of -40 to +60°C.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Strain relief for the cable connection must be installing.

The cable must be secured against twisting and loosening.

When extracting from zone 0, the higher temperature class inside must be considered.

The ambient temperature range depends on the components used. Further information are mentioned in the instructions.

Annex:

Annex IBE 17_0024_00.pdf

IECEx Certificate of Conformity - Annex

Certificate No: IECEx IBE 17.0024X Issue No: 0

Date of Issue: 2018-09-03 Page 1 of 1

Item number IECEx GAS 222 Ex1

4	6	2	2	2			1						0						

Sample probe basis unit	
20	GAS 222.20
21	GAS 222.21
31	GAS 222.31
35	GAS 222.35
Flange	
01	Flange DN65 PN6
02	Flange DN3"-150
xx	others
Hazardous area	
outside	
4	1
5	2
9	none
inside	
3	0
4	1
5	2
9	none
Temperature class	
2	T2 (T1/T2 for EPL Ga/Gb)
3	T3 (T2/T3 for EPL Ga/Gb)
4	T4 (T3/T4 for EPL Ga/Gb)
5	T5 (T4/T5 for EPL Ga/Gb)
6	T6 (T5/T6 for EPL Ga/Gb)
Power supply sample probe	
1	115V
2	230V
Calibration gas port	
0	No
1	6mm
2	6mm + check valve
3	1/4
4	1/4 + check valve
Capacitive vessel	
0	No
1	Yes (not for gas zone inside)
Valve for pressurized air	
0	Ball valve
1	solenoid valve 115V (marked with "mb") (only T2-T4)
2	solenoid valve 230V (marked with "mb") (only T2-T4)
3	solenoid valve 24V (marked with "mb") (only T2-T4)
9	without
Pneumatic actuator for internal ball valve	
0	No
1	Mono stable depressurized open (only for GAS 222.21/31)
2	Mono stable depressurized closed (only for GAS 222.21/31)
Limit switch for pneumatic actuator	
0	No
1	Yes (marked with "db") (only for GAS 222.21/31)
Solenoid valve for pneumatic actuator	
0	No
1	Yes (marked with "mb") (only for GAS 222.21/31) (only T2-T4)

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 17.0024X**	Page 1 of 4	Certificate history: Issue 0 (2018-09-03)
Status:	**Current**	Issue No: 1	
Date of Issue:	2020-09-02		

Applicant: **Bühler Technologies GmbH**
Harkortstr. 29
40880 Ratingen
Germany

Equipment: **Sample Gas Probe GAS 222.xx Ex 1**

Optional accessory:

Type of Protection: **Ex e, Ex t with Ex d and Ex m**

Marking: **For GAS 222.20/21/31/35**

EPL Ga/Gb:
Ex db eb mb IIC T5/T6…T1/T2 Ga/Gb

EPL Gb:
Ex db eb mb IIC T6…T2 Gb

For GAS 222.10/11/30/35-U

EPL Ga/Gb:
Ex db eb mb IIC T4 Ga/Gb
EPL Gb:
Ex db eb mb IIC T4 Gb

EPL Da/Db:
Ex ta/tb mb IIIC T130°C Da/Db

EPL Db:
Ex tb mb IIIC T130°C Db
EPL Ga/Db:
Ex db eb mb IIC T4 Ga
Ex tb mb IIIC T130 °C Db
EPL Da/Gb:
Ex ta IIIC T130 °C Da
Ex db eb mb IIC T4 Gb

This is the maximal marking and depends on the used configuration. For further information see typecode in annex.

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

Position: **Deputy Head of Certification Body**

Signature: (for printed version) A. Henker

Date: 2020-09-02

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Certificate issued by:

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg
Germany

IECEx Certificate of Conformity

Certificate No.: **IECEx IBE 17.0024X**

Issue No: 1

Date of issue: 2020-09-02

Manufacturer: **Bühler Technologies GmbH**
Harkortstr. 29
40880 Ratingen
Germany

Additional 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 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1:2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-18:2017 Edition:4.1	Explosive atmospheres - Part 18: Protection by encapsulation "m"
IEC 60079-26:2014-10 Edition:3.0	Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga
IEC 60079-31:2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7:2017 Edition:5.1	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

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 Reports:

DE/IBE/ExTR16.0034/00 DE/IBE/ExTR16.0034/01

Quality Assessment Report:

DE/BVS/QAR16.0002/03

IECEx Certificate of Conformity

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

A sample gas is transported through the gas sampling probe to a gas analyzer via an external sample gas pump.

Unheated Types

Unheated sample gas probes (type 10, 11, 30, 35-U) are designed for use in EPL Gb/Db and for sampling from EPL Ga/Da. The sample gas passes through a particle filter which is located inside the probe (type 10,11) or outside the probe in the process (type 11). With version 11, it is possible to separate the inside of the probe from the process by means of a ball valve, e.g. to change the filter.

Heated Types

Heated sample probes (type 20, 21, 31, 35) are designed for use in EPL Gb and for sampling from EPL Ga. The sample gas passes through a particle filter which is located inside the probe (type 20, 21) or outside the probe in the process (type 21, 31, 35). With the versions 21, 31 it is possible to separate the inside of the probe from the process by means of a ball valve, e.g. to change the filter (type 21). For EPL Ga/Gb applications, the temperature class inside is one class lower than outside.

Heated and unheated probes are suitable for an ambient temperature of -40 to +60°C. They are always equipped with approved electrical components (e.g. solenoid valves, terminal box). The type code and the implementation in the order configurator exclude the configuration of unheated probes without electrical components as IECEx type-tested devices.

SPECIFIC CONDITIONS OF USE: YES as shown below:
Strain relief for the cable connection must be installing.

The cable must be secured against twisting and loosening.

When extracting from EPL Ga with heated gas probes, the more critical temperature class inside must be considered.

The extended ambient temperature range is -40 °C up to +60 °C but further depends on the components used. Additional informations are mentioned in the instructions.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Addition of certification for the use in hazardous dust atmospheres EPL Db and sampling of hazardous dust atmospheres EPL Da.
- Inclusion of the unheated probe types (10, 11, 30, 35-U) in combination with an ex-approved electrical component
- Constructive changes

Annex:

Annex IBE 17_0024_01.pdf

IECEx Certificate of Conformity - Annex

IBExU

Certificate No: IECEx IBE 17.0024X

Issue No: 1

Date of Issue: 2020-09-02

4 6 2 2 2 _ _ _ _ _ _ _ _ _ _ 0 _ _ _ _ _

Code	Description			
46222	**sample probe basis unit**			
	unheated			
1 0	GAS 222.10			
1 1	GAS 222.11			
3 0	GAS 222.30			
3 5	GAS 222.35-U			
	heated			
2 0	GAS 222.20			
2 1	GAS 222.21			
3 1	GAS 222.31			
3 5	GAS 222.35			
	junction box			
0	no (only for GAS 222.10/11/30/35-U)			
1	yes			
	flange			
0 1	flange DN65 PN6			
0 2	flange DN3"-150			
x x	others			
	hazardous area			
	outside			
4	zone 1			
7	zone 21 (only for GAS 222.10/11/30/35-U)			
	inside			
3	zone 0			
4	zone 1			
6	zone 20 (only for GAS 222.10/11/30/35-U)			
7	zone 21 (only for GAS 222.10/11/30/35-U)			
9	none			
	temperature class inside / outside (GAS 222.20/21/31/35)			
	Ga/Gb	**Gb/Gb**		
2	T1 /T2	T2/T2		
4	T3/T4	T4/T4		
6	T5/T6	T6/T6		
	temperature class inside / outside (GAS 222.10/11/30/35-U)			
	Ga/Gb or Gb/Gb	**Ga/Db or Gb/Db**	**Da/Gb or Db/Gb**	**Da/Db or Db/Db**
4	T4/T4	T4/T130°C	T130°C/T4	T130°C/T130°C
	power supply sample probe			
0	none (only for GAS 222.10/11/30/35-U)			
1	115V (only for GAS 222.20/21/31/35)			
2	230V (only for GAS 222.20/21/31/35)			
0	(fixed position)			
	calibration gas port			
0	no			
1	6mm			
2	6mm + check valve			
3	1/4			
4	1/4 + check valve			
	pressure vessel			
0	no			
1	yes			
	purge valve			
0	ball valve			
1	solenoid valve 110V (marked with "mb") (only T2-T4 or T130°C)			
2	solenoid valve 230V (marked with "mb") (only T2-T4 or T130°C)			
3	solenoid valve 24V (marked with "mb") (only T2-T4 or T130°C)			
9	without			
	pneumatic actuator for internal ball valve			
0	no			
1	mono stable depressurized open (only for GAS 222.11/30/21/31)			
2	mono stable depressurized closed (only for GAS 222.11/30/21/31)			
	limit switch for pneumatic actuator			
0	no			
1	yes (only for GAS 222.11/30/21/31) (marked with "db" or "ta" or "tb")			
	solenoid valve for pneumatic actuator			
0	no			
1	110V (only for GAS 222.11/30/21/31) (marked with "mb") (only T2-T4 or T130°C)			
2	230V (only for GAS 222.11/30/21/31) (marked with "mb") (only T2-T4 or T130°C)			
3	24V (only for GAS 222.11/30/21/31) (marked with "mb") (only T2-T4 or T130°C)			

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 17.0024X**

Page 1 of 4

Certificate history:
Issue 1 (2020-09-02)
Issue 0 (2018-09-03)

Status: **Current**

Issue No: 2

Date of Issue: 2023-02-13

Applicant: **Bühler Technologies GmbH**
Harkortstr. 29
40880 Ratingen
Germany

Equipment: **Sample Gas Probe GAS 222.xx Ex 1**

Optional accessory:

Type of Protection: **Ex e, Ex t with Ex d and Ex m**

Marking: **For GAS 222.20/21/31/35**

EPL Ga/Gb:
Ex db eb mb IIC T5/T6…T1/T2 Ga/Gb

EPL Gb:
Ex db eb mb IIC T6…T2 Gb

EPL Da/Db:
Ex ta/tb mb IIIC T120 °C/T80 °C…T300 °C/T226 °C Da/Db

EPL Db:
Ex tb mb IIIC T80 °C…T226 °C Db

EPL Ga/Db:
Ex db eb mb IIC T5 …T1 Ga
Ex tb mb IIIC T80 °C…T226 °C Db

EPL Da/Gb:
Ex ta IIIC T120 °C…T300 °C Da
Ex db eb mb IIC T6 …T2 Gb

For GAS 222.10/11/30/35-U

EPL Ga/Gb:
Ex db eb mb IIC T4 Ga/Gb
EPL Gb:
Ex db eb mb IIC T4 Gb

EPL Db:
Ex tb mb IIIC T130°C Db
EPL Ga/Db:
Ex db eb mb IIC T4 Ga
Ex tb mb IIIC T130 °C Db

EPL Da/Db:
Ex ta/tb mb IIIC T130°C Da/Db

EPL Da/Gb:
Ex ta IIIC T130 °C Da
Ex db eb mb IIC T4 Gb

This is the maximal marking and depends on the used configuration. For further information see typecode in annex.

Approved for issue on behalf of the IECEx Certification Body: **Dr.-Ing. Peter Cimalla**

Position: **Deputy Head of department Certification Body**

Signature:
(for printed version)

Date:
(for printed version)

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Certificate issued by:

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg
Germany

IECEx Certificate of Conformity

Manufacturer: **Bühler Technologies GmbH**
Harkortstr. 29
40880 Ratingen
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 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1:2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-18:2017 Edition:4.1	Explosive atmospheres - Part 18: Protection by encapsulation "m"
IEC 60079-26:2014-10 Edition:3.0	Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga
IEC 60079-31:2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7:2017 Edition:5.1	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
IEC/IEEE 60079-30-1:2015 Edition:1.0	Explosive atmospheres - Part 30-1: Electrical resistance trace heating - General and testing requirements

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 Reports:

DE/IBE/ExTR16.0034/00 DE/IBE/ExTR16.0034/01 DE/IBE/ExTR16.0034/02

Quality Assessment Report:

DE/BVS/QAR16.0002/05

IECEx Certificate of Conformity

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

A sample gas is transported through the sample gas probe to a gas analyzer via an external sample gas pump.

Unheated Types

Unheated sample gas probes (type 10, 11, 30, 35-U) are designed for use in EPL Gb or Db and for sampling from EPL Ga or Da. The sample gas passes through a particle filter which is located inside the probe (type 10,11) or outside the probe in the process (type 11, 30, 35-U). With version 11, 30 it is possible to separate the inside of the probe from the process by means of a ball valve, e.g. to change the filter.

Heated Types

Heated sample probes (type 20, 21, 31, 35) are designed for use in EPL Gb or Db and for sampling from EPL Ga or Da. The sample gas passes through a particle filter which is located inside the probe (type 20, 21) or outside the probe in the process (type 21, 31, 35). With the versions 21, 31 it is possible to separate the inside of the probe from the process by means of a ball valve, e.g. to change the filter (type 21). For EPL Ga and Da applications, the temperature class or maximum surface temperature inside deviates from the outside, see special conditions of use.

Heated and unheated probes are suitable for an ambient temperature of -40 to +60°C. They are always equipped with approved electrical components (e.g. solenoid valves, terminal box). The type code and the implementation in the order configurator exclude the configuration of unheated probes without electrical components as IECEx type-tested devices.

The ambient temperature range, the temperature classes and maximum surface temperatures assigned depend on the selection of the components used.

Technical data:

ambient temperature range:	-40 °C...+60 °C (maximum range, depending on components used)
rated voltage:	115 V AC or 230 V AC
rated frequency:	50 Hz or 60 Hz

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Strain relief for the cable connection must be installing.
- The cable must be secured against twisting and loosening.
- For heated sample gas probes, the temperature class / maximum surface temperature inside (EPL Ga or Da) deviates from that outside (EPL Gb or Db) and must be observed accordingly.
- The maximum permitted ambient temperature range is -40 °C up to +60 °C. It depends on the components used and can be restricted by these components. Additional information is mentioned in the instructions.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
The use of alternative trace heating units including new end seals has been considered.

Annex:

Annex IBE 17_0024_02.pdf

IECEx Certificate of Conformity - Annex

Certificate No: IECEx IBE 17.0024X Issue No: 2

Date of Issue: 2023-02-13 Page 1 of 1

4 6 2 2 2													0						
sample probe basis unit																			
unheated																			
1	0																	GAS 222.10	
1	1																	GAS 222.11	
3	0																	GAS 222.30	
3	5																	GAS 222.35-U	
heated																			
2	0																	GAS 222.20	
2	1																	GAS 222.21	
3	1																	GAS 222.31	
3	5																	GAS 222.35	
		junction box																	
		0																no (only for GAS 222.10/11/30/35-U)	
		1																yes	
			flange																
			0	1														flange DN65 PN6	
			0	2														flange DN3"-150	
			x	x														others	
					hazardous area														
					outside														
					4													zone 1	
					7													zone 21 (only for GAS 222.10/11/30/35-U)	
						inside													
						3												zone 0	
						4												zone 1	
						6												zone 20 (only for GAS 222.10/11/30/35-U)	
						7												zone 21 (only for GAS 222.10/11/30/35-U)	
						9												none	
							temperature class inside / outside (GAS 222.20/21/31/35)												
							Ga/Gb											**Gb/Gb**	
							2											T1 /T2	T2/T2
							4											T3/T4	T4/T4
							6											T5/T6	T6/T6
								temperature class inside / outside (GAS 222.10/11/30/35-U)											
								Ga/Gb or Gb/Gb										**Ga/Db or Gb/Db**	**Da/Gb or Db/Gb**	**Da/Db or Db/Db**
								4										T4/T4	T4/T130°C	T130°C/T4	T130°C/T130°C
									power supply sample probe										
									0									none (only for GAS 222.10/11/30/35-U)	
									1									115V (only for GAS 222.20/21/31/35)	
									2									230V (only for GAS 222.20/21/31/35)	
										calibration gas port									
										0								no	
										1								6mm	
										2								6mm + check valve	
										3								1/4	
										4								1/4 + check valve	
											pressure vessel								
											0							no	
											1							yes	
												purge valve							
												0						ball valve	
												1						solenoid valve 110V (marked with "mb") (only T2-T4 or T130°C)	
												2						solenoid valve 230V (marked with "mb") (only T2-T4 or T130°C)	
												3						solenoid valve 24V (marked with "mb") (only T2-T4 or T130°C)	
												9						without	
													pneumatic actuator for internal ball valve						
													0					no	
													1					mono stable depressurized open (only for GAS 222.11/30/21/31)	
													2					mono stable depressurized closed (only for GAS 222.11/30/21/31)	
														limit switch for pneumatic actuator					
														0				no	
														1				yes (only for GAS 222.11/30/21/31) (marked with "db" or "ta" or "tb")	
															solenoid valve for pneumatic actuator				
															0			no	
															1			110V (only for GAS 222.11/30/21/31) (marked with "mb") (only T2-T4 or T130°C)	
															2			230V (only for GAS 222.11/30/21/31) (marked with "mb") (only T2-T4 or T130°C)	
															3			24V (only for GAS 222.11/30/21/31) (marked with "mb") (only T2-T4 or T130°C)	