

(1) **EU - Type Examination Certificate**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – **Directive 2014/34/EU**

(3) EU - Type Examination Certificate Number

**EPS 22 ATEX 1 269 X**

**Revision 0**

(4) Equipment: Gas meters:  
Turbine gas meters types TZ50 - TZ500 or types Fluxi2000 (TZXX)  
Volume gas meters types MZ50 - MZ400 (MZXX)  
Rotary piston meter types DELTA - Compact, SE, Evo, Series 2, S1-Flow and S3-Flow  
type QD - Quantodelta QDXX

(5) Manufacturer: Dresser Utility Solutions GmbH

(6) Address: Hardeckstraße 2  
76185 Karlsruhe  
Germany

(7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 22TH0428.

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

**EN IEC 60079-0:2018**

**EN 60079-11:2012**

**EN ISO 80079-36:2016**

**EN ISO 80079-37:2016**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.

(11) This EU - Type Examination Certificate relates only to the design and construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

(12) The marking of the equipment shall include the following:

 II 1G Ex h ia IIC T5 Ga



Certification department of explosion protection

Tuerkheim, 08.03.2024

Ulrich Feike



Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH.

(13)

## Annex

(14) **EU - Type Examination Certificate EPS 22 ATEX 1 269 X**

**Revision 0**

(15) Description of equipment:

The gas meters are flow meters and are used to measure flammable gases that are free of air and oxygen and therefore non-explosive as well as other non-flammable and non-corrosive gases.

The gas meters are equipped with various intrinsically safe inductive sensors (MF) or reed switches (LF) and a mechanical display for recording the measured value. Furthermore, an optional reed switch (AT) serves as an anti-tamper switch. The connection is made via plug connectors on the totalizer. Further connections for intrinsically safe inductive sensors (HF) are located on the body of the device, depending on the version. The permissible ambient temperature range is  $-30\text{ °C} \leq T_a \leq +60\text{ °C}$ .

Electrical data:

Sensor circuits: Inductive proximity switches (MF and HF) for connection to certified intrinsically safe circuits Ex ia IIC with the following maximum values

per circuit:	$U_i = 15\text{ V}$
	$I_i = 50\text{ mA}$
	$P_i = 64\text{ mW}$
Maximum effective internal inductance:	$L_i = 250\text{ }\mu\text{H}$
Maximum effective internal capacitance:	$C_i = 90\text{ nF}$

Contact circuits: Reed switches (LF resp. AT) for connection to certified intrinsically safe circuits Ex ia IIC with the following maximum values

per circuit:	$U_i = 15\text{ V}$
	$I_i = 50\text{ mA}$
	$P_i = 120\text{ mW}$

The maximum effective internal inductance and capacitance are negligibly small.

(16) Reference number: 22TH0428

(17) Special conditions for safe use:

1. The gas meters are intended for installations in areas in which explosive gas/air mixtures may also be present over a longer period of time (zone 0). However, only a non-ignitable gas composition is permitted within the installed devices. This must be ensured by inertisation before initial use with fuel gases. The same applies to recommissioning.
2. When used in Zone 0, Delta rotary piston meters in aluminum design must be protected against friction or impact processes caused by rusting steel components by means of a suitable installation in order to prevent the generation of sparks.
3. The gas meters must be included in the local equipotential bonding system.
4. The gas meters must be cleaned and maintained in such a way that dangerous electrostatic charging, particularly of the plastic surfaces, is not to be expected. The information on the type plate must be observed.
5. The assignment of the respective sensors or contacts to the connection plugs and their contacts can be found in the operating instructions.

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection

Tuerkheim, 08.03.2024

