



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **CSANe 22ATEX1143** Issue: **0**

4 Equipment: **Diaphragm gas meter ACD and BGZ Gxxx series**

5 Applicant: **Dresser Utility Solutions GmbH**

6 Address: **Hardeck Str. 2
D-76185 Karlsruhe
Germany**

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 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 intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

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 Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2G

Ex h IIC T5 Gb

Ta = -30°C to +60°C

Signed: Michelle Halliwell

Title: Director of Operations



Project Number 80102487

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CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

CSANe 22ATEX1143
Issue 0

13 DESCRIPTION OF EQUIPMENT

Dresser Actaris Gas meters (called DAG meters) are designed to measure and display gas volume. They can be installed in explosive hazardous areas Zone 1. They are designed for an ambient temperature of -30°C to +60°C and a maximum pressure of 1.0 bar. DAG meters consist of four main parts: Totalizer unit, Housing, Transmitting unit and Measuring unit.

All totalizer units are not pressurized plastic units containing an indication device and a nameplate.

The housing consists of an upper and bottom part. Depending on meter size and internal pressure it's made either from drawn or welded steel sheet metal. The housing provides one or two bosses for pipe installation as well as the transmission coupling and the installation interface for the totalizer.

Transmission unit enables transmission of the rotation movement from the internal measuring unit through the housing to the totalizer. There are two options available, a magnetic coupling and a stuffing-box version.

The measurement unit consist of two double-chambers, each divided by a diaphragm. An alternating filling and draining of the chambers is converted into a rotating movement, the speed is equivalent to the gas flow rate. The complete measuring unit is enclosed within a metallic housing.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	17 March 2023	R80102487A	The release of the prime certificate.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

None

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF MANUFACTURE

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.

17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.

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Certificate Annexe



Certificate Number: CSANe 22ATEX1143

Equipment: Diaphragm gas meter ACD and BGZ Gxxx series

Applicant: Dresser Utility Solutions GmbH

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
480-099-00	1 of 1	C	01 Mar 23	Nameplate
240-010-01	1 of 1	AA	27 Feb 23	Diaphragm gas meter [
241-099-8053	1 of 1	C	27 Feb 23	Diaphragm gas meter
473-099-0015	1 of 1	AG	27 Feb 23	Diaphragm gas meter two pipe version
481-099-20	1 of 1	C	27 Feb 23	Diaphragm gas meter

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