

(1) EU TYPE-EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**
- (3) EU Type-Examination Certificate Number

TÜV 16 ATEX 7729 X

Issue: 00

- (4) Equipment: Pulse generator for Turbine Gas Meters and Rotary Gas Meters
- (5) Manufacturer: Elster GmbH
- (6) Address: Steinern Str. 19-21
D-55252 Mainz-Kastel
- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle for ex-protected products of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies 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 atmosphere, given in Annex II to the Directive.
- (9) The examination and test results are recorded in the confidential report 557/Ex7729.00/16 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN 60079-0: 2012/A11 2013

EN 60079-11: 2012

- (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 schedule to this certificate.
- (11) This Type-Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.
- (12) The marking of the equipment shall include the following:



II 2 G Ex ia IIC T4 Gb

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TÜV Rheinland ExNB for explosion protected equipment

Cologne, 2016-08-23

Dipl.-Ing. Andreas Maschke



This EU Type-Examination Certificate without signature and stamp shall not be valid.
This Type-examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the
TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114

(13) Annex

(14) **EU Type Examination Certificate**
TÜV 16 ATEX 7729 X Issue: 00

(15) Description of equipment

15.1 Equipment and type:

Pulse generator for Turbine Gas Meters and Rotary Gas Meters
IN-Sxx / S1xRx / S2xRx / QA E1 / RVG-ST 2xE1

15.2 Description / Details of Change

General product information

IN-Sxx / S1xRx / S2xRx / QA E1 / RVG-ST 2xE1 are low frequency pulse generators for turbine and rotary gas meters. The IN-Sxx versions are in an external plastic housing. The S1xRx / S2xRx / QA E1 / RVG-ST 2xE1 versions are integrated in an index head. The pulse generators work with a reed switch. A magnet at the mechanical index rotated on a disc or drum. If the magnet is near the reed contact, the reed contact will switch.

Type code:

IN-Sxx (external) versions:

IN-S10:	Model with cable
IN-S10V:	Model with short cable
IN-S10K:	Model with cable and additional PG fitting
IN-S11/IN-S11F:	Model with 1 plug (male); F marks a different pin connection
IN-S12 / IN-S12F:	Model with 2 plugs (male); F marks a different pin connection
IN-S10A:	Model with cable (only with 4 strands)
IN-S15:	Model with 1 plug (female)
IN-S22:	Model with 2 plugs (male, 3 pin)

Internal versions:

S1D-R:	Index head, double index, one reed contact
S1D-R3:	Index head, double index, three reed contacts
S1V-R:	Index head, vertical reading, one reed contact
S1V-R3	Index head, vertical reading, three reed contact
S2D-R:	Index head, double index, one reed contact
S2D-R3:	Index head, double index, three reed contacts
S2V-R:	Index head, vertical reading, one reed contact
S2V-R3	Index head, vertical reading, three reed contact
QA E1:	Integrated in a Quantometer (Turbine meter)
RVG-ST E1:	Integrated in a RGV-ST (Rotary meter)

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Technical Data

Ambient temperature: $-40^{\circ}\text{C} \leq T_a \leq 70^{\circ}\text{C}$

Electrical supply data:

U_i	$\leq 24 \text{ V}$
I_i	$\leq 25 \text{ mA}$
P_i	$\leq 0,25 \text{ W}$

(16) Test-Report No. 557/Ex7729.00/16

(17) Special Conditions for safe use

1. The safety information of the user manual has to be observed.
2. The internal versions have to be mounted into an enclosure of at least IP20.

(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

TÜV Rheinland ExNB for explosion protected equipment

Cologne, 2016-08-23


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