

(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 14 ATEX 7603 X

Issue: 03

- (4) Equipment: **ViscoScope Sensor type S-1***_** or S-3***_** and type VA-100*_** or Typ VA-300*_****
- (5) Manufacturer: **Fluid.iO® Sensor + Control GmbH & Co. KG**
- (6) Address: **An der Hartbrücke 6,
64625 Bensheim
Germany**

- (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 für Explosionsschutz 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 product which 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.

The examination and test results are recorded in the confidential report 557 / Ex 7603.03 / 14

- (9) 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 IEC 60079-0:2018 EN 60079-11:2012 EN 60079-26:2015

- (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 EU-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 1/2G Ex ia IIC T6...T3 Ga/Gb

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2023-07-06

Dipl.-Ing. Christian Menrhoff



This EU-Type Examination Certificate without signature and stamp shall not be valid.
This EU-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 14 ATEX 7603 X

Issue: 03

(15) Description of equipment

15.1 Equipment and type:

Issue 00

ViscoScope Sensor type S-1***-** or S-3***-**

| Asterisk | Description | Values |
|----------|---------------------------|------------------------------------|
| 1, 2 | Sensor design | 10, 11, 20, 21, 50, 51, 60, 61, 1F |
| 3 | Viscosity range | C, B, H, L, M, S, X |
| 4, 5 | Process temperature range | BT, LT, ST, HT |

ViscoScope Sensor type VA-100*-** or VA-300*-**

| Asterisk | Description | Values |
|----------|---------------------------|---------------------|
| 1 | Viscosity range | C, B, H, L, M, S, X |
| 2, 3 | Process temperature range | BT, LT, ST, HT |

ISSUE 01

Unchanged to 557 / Ex 7603.00 / 14

ISSUE 02

Unchanged to 557 / Ex 7603.00 / 14

ISSUE 03

Unchanged to 557 / Ex 7603.00 / 14

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15.2 Description / Details of Change

General product information

ISSUE 01

The ViscoScope Sensor type S-1***-** or S-3***-** and type VA-100*-** or VA-300*-** in connection with a respective evaluation unit is used to dynamically determine the viscosity of fluids in processes.

The evaluation unit, consisting of an associated transmission cable, safety barrier, and transmitter. The transmission cable, safety barrier, and transmitter are not part of this assessment.

The sensor is installed in the separation wall of e.g. vessels, tanks or pipes. For the process connection different types of flanges or threads are available. The external electrical connection is done either via terminal situated in the top part of the sensor enclosure or via a connector situated at the cover of the sensor enclosure.

The sensor of type S-1***-** and type VA-100*-** contains in total 2 coils; 1 driver and 1 receiver coil. The sensor of type S-3***-** and type VA-300*-** contains 2 split pair coils connected in series; 2 driver and 2 receiver coils.

ISSUE 02

Unchanged to 557 / Ex 7603.00 / 14

ISSUE 03

Unchanged to 557 / Ex 7603.00 / 14

Description of change

ISSUE 01

Scope of this supplement is the compliance with the standard IEC 60079-26:2014 as well as correction of the technical data.

ISSUE 02

Scope of this supplement is the compliance with the standard IEC 60079-0:2017 as well as the applicant changed:

| | |
|---------------------------------|--|
| From | to |
| Marimex Industries GmbH & Co.KG | E.L.B. Füllstandsgeräte Bundschuh GmbH & Co.KG |
| Bergiusstrasse 6 | An der Hartbrücke 6 |
| 46244 Bottrop, Germany | 64625 Bensheim Germany |

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ISSUE 03

The name of the Manufacturer changed to:

Fluid.iO® Sensor + Control GmbH & Co. KG
An der Hartbrücke 6
64625 Bensheim
Germany

Technical Data

Unchanged to 557 / Ex 7603.02 / 14

- (16) **Test-Report No.** 557 / Ex 7603.03 / 14
- (17) **Special Conditions for safe use**
Unchanged to 557 / Ex 7603.02 / 14
- (18) **Basic Safety and Health Requirements**
Covered by afore mentioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2023-07-06

Dipl.-Ing. Christian Mehrhoff



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