



CERTIFICATE

Certificate no. 6972



Aquasant Messtechnik AG
Hauptstrasse 22
CH-4416 Bubendorf

QS ZÜRICH AG certifies that the management system of the above mentioned company has been evaluated and meets the requirements established by the following rules:

ISO 9001: 2015

The management system includes:

Development, manufacturing and sales of measuring-, monitoring- and controlling-equipment for the chemical industry, the biotechnology, the food industry and the petrochemistry

During the period of validity of this certificate, the management system of the company must always comply with the requirements of the certified standards.

For updated amendments within the scope of certification of the present certificate, please refer to

<http://www.quality-service.ch/>



First certification date:

01.03.1996

Date of issue:

02.07.2018

Expiration date:

01.07.2021

Subject to successful surveillance audit

QS ZÜRICH AG

P.O. Box 6335

CH-8050 Zürich

info@quality-service.ch

A blue ink signature of a person, likely a representative of the management system.

Management

Production Quality Assurance Notification
(Translation)

(1)

(2) Equipment or protective systems or components intended for use in potentially explosive atmospheres - **Directive 2014/34/EU**

(3) Notification Number:

QS 11 ATEX 2081



(4) Product group(s): Rigid, flexible and tubular probes/Measuring electronics/Control units/
Liquid probe/In-situ-electronics/Turbidity measuring unit in type of
protection Intrinsic Safety "i", Flameproof Enclosure "d"
and Encapsulation "m"

(5) The notified body keeps a list of the EU-type examination certificates this notification applies.

(6) Applicant: Aquasant Messtechnik AG
Hauptstrasse 22
CH-4416 Bubendorf

(7) Actual manufacturer: Aquasant Messtechnik AG
Hauptstrasse 22
CH-4416 Bubendorf

(8) The **QS Zürich AG** confirms to the applicant that its production quality system complies with the Annex IV of the Directive.

(9) This notification is based on the confidential audit report No V-16.1884, issued the 29th June 2018. The notification is valid until **1st July 2021** and can be withdrawn if the actual manufacturer no longer satisfies to the requirements of annex IV.

Results of periodical reassessment of the quality system are a part of this notification.

QS Zürich AG

Zürich, 2nd July 2018


Manager of the certification body
L. Beljean



EG-KONFORMITÄTSERKLÄRUNG EC DECLARATION OF CONFORMITY

des Herstellers über die Fertigung und Prüfung von Mess- und Steuergeräten
over manufacturing and testing of measuring equipment units
nach der ATEX Richtlinie 2014/34/EU, Niederspannungsrichtlinie 2014/35/EU
und EMV 2014/30/EU

as per ATEX directive 2014/34/EU, Low Voltage Directive 2014/35/EU and EMV 2014/30/EU

Hersteller: / Manufacturer: Aquasant®, Aquasant Messtechnik AG, Hauptstrasse 22,
4416 Bubendorf, Switzerland

Benannte Stelle: / notified body: N° 1254, **QS** Zürich AG, Postfach 6335, 8050 Zürich, Switzerland

Wir erklären in alleiniger Verantwortung, dass die

We hereby declare under our sole responsibility that the

Flüssigkeitsfühler: / Liquid detectors:

Modell: / Model: **ATDR2**

EG Baumusterprüfbescheinigung: / EC-Type Examination Certificate Number: SEV 11 ATEX 0178 X

den folgenden harmonisierten Europäischen Normen entsprechen:

correspond to the following harmonized European standards:

- Allgemeine Bestimmungen	- <i>General regulation</i>	EN 60079-0:2012 + A11:2013 EN 60079-1:2014
- Eigensicherheit "i"	- <i>Intrinsic safety "i"</i>	EN 60079-11:2012
- Geräteschutzniveau (EPL) Ga	- <i>equipment protection level (EPL) Ga</i>	EN 60079-26:2015
- Gerät-Schtaubexplosionschutz "t"	- <i>equipment dust ignition protection "t"</i>	EN 60079-31:2014
- Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte	- <i>Safety requirements for electrical equipment for measurement, control and laboratory use</i>	EN 61010-2:2010
- EMV-Anforderung für elektrische Mess-, Steuer-, Regel- und Laborgeräte	- <i>EMC requirements for electrical equipment for measurement, control and laboratory use</i>	EN 61326-1:2013

Date: 10.01.2017

Signed:


Roland Inauen
Management CEO


Roger Inauen
Head Manufacturing





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

(2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 2014/34/EU**

(3) Certificate number: **SEV 11 ATEX 0178 X**

(4) Product: TDR LEVEL SENSOR, type: ATDR2

(5) Manufacturer: Aquasant Messtechnik AG

(6) Address: Hauptstrasse 22, 4416 Bubendorf, SWITZERLAND

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

(8) Electrosuisse SEV, notified body No. 1258, in accordance with article 17 of Directive 2014/34/EU of the European parliament and of the council, dated 26 February 2014, certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no 09-IK-0358.03 Extension 1

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

EN 60079-0:12 + A11:13

EN 60079-1:14

EN 60079-11:12

EN 60079-26:15

EN 60079-31:14

Except in respect of those requirements listed at item 18 of the schedule.

(10) If the sign «X» is placed after the certificate number, it indicates that the product is subjected to special conditions for safe use specified in the schedule to this certificate.

(11) This EU type examination certificate relates only to design and construction of the specified product. Further requirements of this directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

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

see appendix: (20) markings

Electrosuisse
Notified Body ATEX



Jürg Rellstab

Product Certification

(13)

Appendix

(14)

EU-Type Examination Certificate

(15) **Description of product**

4-wire TDR-Sensor with single rod, wire rope or coaxial probe for continuous level measurement and point level detection in liquids, with analog and switching output. The sensor is delivered without cable glands. It is the customer's responsibility to seal the two cable entries with approved cable glands.

Rating: Supply voltage: U = 12...30V DC (Um 250V AC)
 Analog output: I = 4...20mA (Um 250V AC)
 Switching output: Us = 0...U (Um 250V AC)

Rated ambient temperature range: -40°C to +70°C

The temperature class depends on ambient temperature and application temperature on the sensor. This relations are shown in the following tables:

CATEGORY 1/2G		
Temperature class	Application temperature	Ambient temperature
T1...T6	-20...+60°C	-40...+70°C
CATEGORY 2G		
T6	-40...+85°C	-40...+70°C
T5	-40...+100°C	-40...+70°C
T4	-40...+135°C	-40...+70°C
T1...T3	-40...+150°C	-40...+70°C
CATEGORY 1/2D and 2D		
max. surface temperature: +86°C		-40...+70°C

(16) **Report number** 09-IK-0358.03 Extension1

(17) **Specific conditions of use**

POWER DOWN WARNING:

Marking and Safety Instruction: After de-energizing, wait 6 minutes before opening

CABLE ENTRIES AND CABLE GLANDS:

Safety Instruction: The housing has two cable entries. For installation in hazardous areas, only cable glands certified according to IEC 60079-1 or certified conduit systems are permitted.

(18) **Essential health and safety requirements**





In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
None	

(19) **Drawings and Documents**

See test report "Manufacturer's Documents"

(20) **Markings**

 II 1/2G	Ex ia/db IIC T6 Ga/Gb
 II 1/2D	Ex ia/tb IIIC T86°C Da/Db
 II 2G	Ex ia db IIC T6 Gb
 II 2D	Ex ia tb IIIC T86°C Db