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Doc | [ZEN IMP 2303] CERTIFICATE_mipromex_Mxx_SEV22.docx

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Changes | Reserved

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QS Zürich | Certificate ISO 9001: 2015



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 and location(s) 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

T SWISS

First certification date:

Date of issue:

Expiration date:

Subject to successful surveillance audit

01.03.1996 25.05.2021 01.07.2024

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

QS ZÜRICH AG
P.O. Box 6335
CH-8050 Zürich
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CSA GROUP | Production/Product Quality Assurance Notification





1 PRODUCTION/PRODUCT QUALITY ASSURANCE NOTIFICATION

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

Conformity to Type based on Quality Assurance of the Production Process/Product Quality Assurance

- 3 Notification No. KIWA 19ATEXQ1234
- 4 Equipment, protective system or components as listed:

Controllers and sensors for Impedance measuring technique of parting, threshold, level; Electro-optical fluid overfill protection; Electro-optical turbidity measurement; Treshold conductivity sensor technique; Radar level measurement

Flameproof Enclosures (d)
Increased Safety (e)
Non-electrical equipment (h)
Intrinsic Safety (i)
Encapsulation (m)
Optical Radiation (op is)
Dust Ignition Protection by Enclosure (t)

5 Manufacturer or Authorised Representative: Aquasant Messtechnik AG

Hauptstr. 22 4416 Bubendorf Switzerland

- 6 Manufacturing locations: As above
- 7 CSA Group Netherlands B.V., notified body number 2813 in accordance with Article 17 of the Council Directive 2014/34/EU, notifies that the manufacturer has a quality system which complies with the requirements of Annexes IV & VII of Directive 2014/34/EU.
- 8 This notification is based upon Report No. 80135863 issued on 22 July 2022. This notification can be withdrawn if the manufacturer no longer satisfies the requirements of Annexes IV/VII. Results of periodical assessment of the quality system form part of this notification.
- 9 According to Article 16 [3] of Directive 2014/34/EU the CE marking shall be followed by the identification number 2813 of CSA Group Netherlands B.V., as the Notified Body involved in the production control stage.

Date of Initial Certification: 06 November 2019
Date of Issue: 18 August 2022
Date of Expiry: 24 October 2025

Michelle Halliwell
On behalf of CSA Group Netherlands B.V.



Notification No. KIWA 19ATEXQ1234

This certificate remains valid subject to the company maintaining its system to the required standards, which will be monitored by CSA. The use of this certificate, marks and logos are subject to the Regulations Applicable to Holders of CSA Group Netherlands BV certificates CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR, Netherlands

DQD507.24 Issue Date: 2021-10-07

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EU DECLARATION OF CONFORMITY SEV 22 | mipromex®

we create solutions





EU DECLARATION OF CONFORMITY ••

Manufacturer: Aquasant Messtechnik AG, Hauptstrasse 22, 4416 Bubendorf, Switzerland

Brand: aquasant®

Notified body: N° 2813, CSA Group Netherlands B.V.

Description: The microprocessor control unit «mipromex®» is used for power supply and

evaluation of measuring pulses which are transmitted from the impedance

measuring probe as a sum signal.

We hereby declare under our sole responsibility that the products:

Product Control units «mipromex» M** ******

Inspection certificate number SEV 22 ATEX 0592
Notified body N° 1258 | Eurofins E&E

comply with the following European guidelines under the harmonised standards or normative documents:

ATEX RL 2014/34/EU	EN IEC 60079-0:2018 EN 60079-11:2012			
Low Voltage Directive 2014/35/EU				
EMV RL 2014/30/EU	EN 61000 EN 61326			
	EN 61326			
BoHS RL 2011/65/EU	EN IEC 63000:2018			

The standards listed may deviate from those in the type examination certificate. In this case Aquasant Messtechnik AG declares that the product complies with the updated standards and that the basic safety and health requirements are met.

Bubendorf, 01.04.2023

Roger Inauen
Head Manufacturing

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Eurofins | EU-Type Examination Certificate SEV 22 | mipromex®





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

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

Certificate number: **SEV 22 ATEX 0592**

Microprocessor Control Unit Mipromex®, Type: M** **** **** -Ex Product:

Aquasant Messtechnik AG (5)Manufacturer:

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

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

Eurofins, 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 22CH-00044.X01

Compliance with the essential health and safety requirements has been assured by compliance

EN IEC 60079-0:2018 EN 60079-11:2012

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

- 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. The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.
- 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:

II (1)G [Ex ia Ga] IIC II (1)D [Ex ia Da] IIIC

Eurofins Electric & Electronic Product Testing AG Notified Body ATEX

Martin Plüss Product Certification

www.eurofins.ch

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Eurofins | Appendix to EU-Type Examination Certificate SEV 22 | mipromex®



(13)

Appendix

(14) EU-Type Examination Certificate no. SEV 22 ATEX 0592

(15) General product information

The microprocessor control unit Mipromex is used for the power supply and evaluation of measuring impulses which are transmitted from the impedance measuring probe as a sum signal. Area of application:

The control unit is installed in the control cabinet in the control room (not in the Ex zone). In the chemical industry, for example, the device is used for signal evaluation from continuous interface, level, limit value regulation and product monitoring.

The product-enclosed electrode system of an interface, rod or tube probe, for example, changes the impedance as a function of the dielectric and electrically conductive properties of organic products and aqueous solutions. The measured impedance is converted as a total signal by the on-site measurement electronics "MTI" or "AMEI" directly into a digital standardized signal. The measured values in the normalized signal range are product-specific and characteristic of different products, such as those that occur when measuring the interface of two immiscible liquids. This product-specific measurement corresponds to a number in the range 0 to 3750. The physical impedance measurement of a product is thus represented as a numerical value, which is referred to as the pulse count.

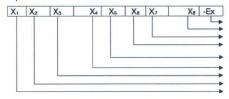
Classification of installation and use: Ingress protection:

Rated ambient temperature range (°C):

stationary IP20 -20 °C to +60 °C

Type designation:

mipromex®



- X₁ M = mipromex®
- X₂ A = Analogue, I = Interface, P = Product, L = Level
- X₃ C = Concentration, M = Monitoring; T = Transmitter, R = Recognition, Q = Quality, S = Switch, L = Level, U = Universal
- X₄ 1 = Limit, 2 = Empty indicator, 3 = Full indicator, 4 = Analog output, 5 = New universal,
 6 = Fill level, 7 = N/A, 8 = Separation layer, 9 = Product (quality, type, concentration)



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X5	Measurement PCB 1	Measurement PCB 1	Analogue inputs	Digital Inputs
1	1			3
2	2			3
3	2	1		3
4	2	2		3
5	1		1	3
6	2		1	3

X ₆	Relays	OC	Analogue outputs	DC converters
0	2			
1		1/2	1	1
2		2	2	1
3	2		1	1
4		2	2	2
5	2		1 passive	
6	2		2	1
7		2		
8	2 internal	.,	1	1
9	1		1	1

 X_7 0 = standard software, 1 = first extension of standard software

X₈ -= without, C = Controller, P = Product compensation, S = Segment, L = LED backlight white

Ex = with explosion protection NEx = without explosion protection on measuring module

Rating:

Input parameters: Um: 36 V

Type of protection Intrinsic Safety Ex ia IIC.

Output parameters: Uo ≤ 18.9 V

 $\begin{array}{lll} \text{lo} & \leq & 49 \text{ mA} \\ \text{Po} & \leq & 231 \text{ mW} \\ \text{Ci} & \leq & 7.4 \text{ nF} \\ \text{Li} & \leq & 0 \\ \text{Linear characteristic} \end{array}$

Co ≤ 190 nF Lo ≤ 1 mH



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(16) Report number 22CH-00044.X01

(17) "Special conditions for safe use" / "Schedule of limitations"

(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"



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Application mipromex® overview Type M** ****

Interface: MIL / MIQ

Batch separation or continuous interface level measurement, detection of two immiscible liquids.

Level: MLT

Level measurement for various applications (product compensated for process level measurement); for organic to aqueous liquids, foams or powders

Level Switch: MLS

Full/empty or limit level indication for organic to aqueous liquids, foams or powders with smallest bulk densities

Leakage Monitoring: MPR

Leakage monitoring in laboratory or miniplant for organic or aqueous liquids

Process/Product Monitoring: MAT

Product monitoring and identification, of organic products

Benefit from our many years of experience and request a quote.

