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ZERTIFIKATE | CERTIFICATE | CERTIFICATS

IMPEDANCE MEASURING SYSTEMS

IMPEDANZ MESSSYSTEME

SYSTÈMES DE MESURE D'IMPÉDANCE



Manufacturer, Sales, Service	Aquasant Messtechnik AG, Hauptstrasse 22, Postfach, CH-4416 Bubendorf
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Doc	ZEN Mxx 2509 - CERTIFICATE_mipromex_Mxx_SEV22.docx
Version	ZEN Mxx 2509/1
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Changes	Reserved

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QS Zürich AG
Postfach 6335, 8050 Zürich
info@quality-service.ch



Certificate

No. 6972

aquasant 

Aquasant Messtechnik AG

Hauptstrasse 22
CH-4416 Bubendorf

QS Zürich AG certifies that the management system of the above mentioned company and above mentioned location 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 <https://www.quality-service.ch/>

Previous cycle until:	01.07.2024
Start current cycle:	02.07.2024
Recertification audit:	06.06.2024
Date of issue:	07.06.2024
First certification date:	01.03.1996
Validity (Subject to successful surveillance audit):	02.07.2024 - 01.07.2027





26.02.2025, Management

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 overflow protection;
Electro-optical turbidity measurement;
Threshold 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

EU Declaration of Conformity SEV 09 | mipromex

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EU DECLARATION OF CONFORMITY | EN

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
RoHS 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

VxZ-EU-KONFORMITÄT-CONFORMITY_SEV22_mipromex-Mx.docx

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electrosuisse 



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

- (2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 94/9/EC**
- (3) Examination Certificate Number
SEV 09 ATEX 0132
- (4) Equipment: Type M** **** * Microprocessor control unit "mipromex®"
- (5) Manufacturer: Aquasant-Messtechnik AG
- (6) Address: Hauptstrasse 22, CH-4416 Bubendorf
- (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 as notified body No. 1258 in accordance with article 9 of the Council Directive of the European Communities of 23 March 1994 (94/9/EC), certifies that 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 atmospheres given in Annex II to the Directive.
The results of the examination are recorded in confidential report No. 08-IK-0396.01
- (9) Compliance with the essential health and safety requirements has been assured by compliance with:
EN 1127-1:2007 EN 60079-0:2006 EN 60079-11:2007
EN 61241-0:2006 EN 61241-11:2006
- (10) If the sign «X» is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This examination certificate relates only to design and construction of the specified equipment in accordance to the directive 94/9/EC. Further requirements of this directive apply to the manufacturing process and the placing on the market of the equipment.
- (12) The marking of the equipment shall include the following:

see Appendix page 2: (19) Marking

Electrosuisse SEV
Certification Body ATEX

Fehraltorf, 2009-06-25


Martin Plüss
Product Certification

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Appendix

- (13)
- (14) **EC-Type Examination Certificate SEV 09 ATEX 0132**
- (15) Description of the equipment
The type M** **** * Microprocessor control unit "mipromex®" serve to supply power and evaluate measuring impulses. They may also be equipped for monitor-ing limit values.
- (16) Test Report 08-IK-0396.01
- (17) Special conditions for safe use
none
- (18) Fundamental essential health and safety requirements
Fulfilled by the standards applied
- (19) Marking
The marking of the equipment shall include the following:

For standard version:

 **II (2)G** **[Ex ia] IIC**
II (2)D **[Ex iaD]** resp.

For the execution for supply of the probes in ignition protections „Ex d ia“

 **II (2)GD**

Electrosuisse SEV
Certification Body ATEX

Fehraltorf, 2008-06-25

Martin Plüss
Product Certification



SEV Verband für Elektro-, Energie- und Informationstechnik

**Prüfbericht Ref. 08-IK-0396.01**

Aquasant-Messtechnik AG, Hauptstrasse 22, CH-4416 Bubendorf

Beschreibung

Das Mikroprozessor-Steuergerät "mipromex®" Typ M** **** * dient der Stromversorgung und der Auswertung von Messimpulsen und kann auch zur Grenzwertüberwachung ausgerüstet werden.

Typenbezeichnung

Die Sterne in der Typenbezeichnung werden durch Kennzeichen von Varianten ersetzt, welche keinen Einfluss auf den Explosionsschutz und die allgemeine Sicherheit haben.

BemessungsdatenFür alle Ausführungen:

Versorgungsspannung (Steckleiste X1: z30 / d30) 18 – 36 VDC bzw. 22 – 26 VAC, ca. 3.4 W

Schaltstromkreise (Steckleiste X1: z14 bis z24) $U_{\max.} = 30 \text{ V}$
 $I_{\max.} = 2 \text{ A}$

Für die Normalausführung:

Signalstromkreise (Steckleiste X1: d2 / z2 bzw. d4 / z4) in Zündschutzart Eigensicherheit Ex ia IIC mit folgenden Ausgangshöchstwerten:

$U_o \leq 18.9 \text{ V}$
 $I_o \leq 49 \text{ mA}$
 $P_o \leq 231 \text{ mW}$

Ausgangskennlinie: linear

maximale äussere Induktivität $L_o = 10 \text{ mH}$
maximale äussere Kapazität $C_o = 180 \text{ nF}$

Für die Ausführung zur Speisung der Sonden in Zündschutzarten „Ex d ia“:

Signalstromkreise (Steckleiste X1: d2 / z2 bzw. d4 / z4) $U \leq 19.3 \text{ V}$
 $I \leq 75 \text{ mA}$

Prüfbericht Ref. 08-IK-0396.01

Aquasant-Messtechnik AG, Hauptstrasse 22, CH-4416 Bubendorf

Hinweise

1. Das Mikroprozessor-Steuergerät "mipromex®" Typ M** **** * ist nach RL 94/9/EG (ATEX 95) Anhang I ein zugehöriges Gerät der Gerätegruppe II Kategorie (2)G sowie (2)D, das nach RL 99/92/EG (ATEX 137) nur ausserhalb des explosionsgefährdeten Bereiches eingesetzt werden darf.

Bei der Verwendung/Installation sind die Anforderungen nach EN 60079-14 bzw. EN 61241-14 einzuhalten.

2. Der zulässige Umgebungstemperaturbereich beträgt 0°C bis +60°C (auch im Inneren eines Schutzgehäuses).
3. Das Mikroprozessor-Steuergerät "mipromex®" Typ M** **** * ist so zu installieren, dass mindestens die Schutzart IP 20 gemäss der Norm IEC 60529 bzw. EN 60529 erreicht wird. Durch entsprechenden Einbau in einen Rackbaugruppenträger bzw. in ein Monorack ist diese Bedingung erfüllt.
4. Das Mikroprozessor-Steuergerät "mipromex®" Typ M** **** * in der Normalausführung ist zwischen den eigensicheren und den nichteigensicheren Stromkreisen durch Einfügen einer Trennwand ein Mindestabstand von 50 mm (Fadenmass) zu realisieren oder die Anschlusssteile sind zusätzlich zu isolieren (z.B. mit einem Schrumpfschlauch sowie durch Verwendung der Anschluss-Prints und Trennwände).
5. Die eigensicheren Signalstromkreise der Normalausführung sind bis zu einem Scheitwert der Nennspannung von 375 V sicher galvanisch von den übrigen Stromkreisen getrennt.

Besondere Bedingungen X

keine

Stückprüfung

Die Stückprüfung und /oder notwendigen Prüfungen sind vom Hersteller durchzuführen, um sicherzustellen, dass an jedem gefertigten Gerät der Aufbau, die Bauteile und Werkstoffe den Prüfungsunterlagen entsprechen.

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

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