IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx DEK 12.0040	Issue No: 2	Certificate history:
			Issue No. 2 (2017-04-25)
Status:	**Current**	Page 1 of 4	Issue No. 1 (2016-06-06)
			Issue No. 0 (2012-12-06)
Date of Issue:	**2017-04-25**		

Applicant: **Electromach B.V., Member of the R. Stahl Technology Group**
Jan Tinbergenstraat 193
7559 SP Hengelo
The Netherlands

Equipment: **Mass Flow Meter/Controller,mini CORI-FLOW, types: XM1*-STD-***-*A**
Optional accessory:

Type of Protection: **Ex d e**

Marking:
Ex db eb IIB T6 Gb

Approved for issue on behalf of the IECEx Certification Body: T. Pijpker

Position: Certification Manager

Signature:
(for printed version)

Date: 2017-04-25

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

DEKRA Certification B.V.
Meander 1051,
6825 MJ Arnhem
The Netherlands

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Manufacturer: **Electromach b.v., Member of the R. Stahl Technology Group**
Jan Tinbergenstraat 193
7559 SP Hengelo
The Netherlands

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

NL/DEK/ExTR12.0022/00 NL/DEK/ExTR12.0022/01 NL/DEK/ExTR12.0022/02

Quality Assessment Report:

DE/BVS/QAR10.0002/10

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Mass Flow Meter/Controller, mini CORI-FLOW type XM1*-STD-***-*A is used to measure and control the flow of a gas or liquid. The Mass Flow Meter/Controller is mounted inside an Ex d enclosure, for field wiring connection an Ex e enclosure is fitted to the flameproof enclosure.

Ambient temperature range: 0 °C to +55 °C or -20 °C to +55 °C

Process temperature range: 0 °C to 70 °C
Process pressure: max. 13,8 MPa (types XM12 and XM13)
max. 10,7 MPa (type XM14)

Type key XM1a-STD-bbb-cA, where

a = size of tube:
2 = M12
3 = M13
4 = M14
bbb = type of material:
RVS = Stainless steel
HAS = Hastelloy
c = Ambient temperature:
S = 0 °C to +55 °C
L = -20 °C to +55 °C

Electrical data

Power supply: 15 - 24 Vdc, max 19 W (flow meter/controller)
max. 42 Vdc, 80 W (heater for low ambient version)

SPECIFIC CONDITIONS OF USE: NO

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 2:

-Assessment to the latest editions of the applicable standards.
-Limitation of ambient temperature from -20 °C to +55 °C to 0 °C to +55 °C.
-Introduction of low temperature version -20 °C to +55 °C.
-Heater only installed for the low ambient version.
-Change of type key from XM1*-STD-*** to XM1*-STD-***-*A.