



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.: **IECEX UL 19.0026** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2019-11-13

Applicant: **Meriam Process Technologies**
10920 Madison Avenue
Cleveland, OH 44102
United States of America

Equipment: **M2000X Series Smart Manometer, Model M200*X-*******

Optional accessory:

Type of Protection: **Intrinsic Safety "ia"**

Marking: Ex ia IIC T4 Ga
-10°C ≤ Ta ≤ +50°C

Approved for issue on behalf of the IECEx
Certification Body:

Katy A. Holdredge

Position:

Senior Staff Engineer

Signature:
(for printed version)

Date:

2019-11-13

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 www.iecex.com or use of this QR Code.



Certificate issued by:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





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Manufacturer: **Meriam Process Technologies**
10920 Madison Avenue
Cleveland, OH 44102
United States of America

Additional
manufacturing
locations:

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with 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:

[US/UL/ExTR19.0029/00](#)

Quality Assessment Report:

[US/UL/QAR10.0011/05](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The M2000X Series is a portable, battery powered pressure sensing and recording device. The device has an internal pressure sensor module, and provides intrinsically safe connection to an external pressure sensor module via cable. The device records data which is analyzed via USB only in non-hazardous locations. The device is powered by four size "AA" Alkaline Manganese Dioxide batteries connected in series that are replaceable only in non-hazardous locations. One non-replaceable 3 Volt Lithium Manganese Dioxide coin cell is included internal to the device for memory backup purposes.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: NO

Annex:

[Annex_to_IECEX_ULD_14.0001X_Issue_4.pdf](#)



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PARAMETERS RELATING TO THE SAFETY

018F4703: 110 / 120 Vac, 50/60 Hz, 0.14 / 0.13 A

018F4704: 230 / 240 Vac, 50/60 Hz, 0.09/ 0.08 A

018F4705: 24 Vdc, 0.43 A

MARKING

Marking has to be readable and indelible; it has to include the following indications:

MARKING left side

CE 0539 Ex II 2G
Ex mb IIC T4 Gb
DEMKO 14 ATEX 1314X
IECEx ULD 14.0001X

Danfoss

DK-6430 Denmark
MADE IN DENMARK

Danfoss

DK-6430 Denmark
MADE IN CHINA

MARKING right side

Warnings
Do not separate coil from
the valve when energized
See instruction

Coil type 018F4703
-40°C ≤ Tamb ≤ +45°C IP65
110V 50Hz 0,14A
120V 60Hz 0,13A

Coil type 018F4704
-40°C ≤ Tamb ≤ +45°C IP65
230V 50Hz 0,09A
240V 60Hz 0,08A

Coil type 018F4705
-40°C ≤ Tamb ≤ +45°C IP65
24Vdc 0,43A



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ROUTINE EXAMINATIONS AND TESTS

Each piece of equipment defined above has to have successfully passed; before delivery:

Each product shall be subjected to a visual inspection according to IEC 60079-18 clause 9.1. No damage shall be evident, such as cracks in the compound, exposure of encapsulated parts, flaking, shrinkage, swelling, decomposition, failure of adhesion or softening.

Each product shall be subjected to a dielectric strength test according IEC 60079-18 clause 9.2 between external supply connections and earth/case, at 1500 Vrms for 1 s minimum, with no breakdown.