



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 NEP 19.0008X

Issue No: 0

Certificate history:

Issue No. 0 (2019-08-08)

Status: **Current**

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Date of Issue: **2019-08-08**

Applicant: **Mettler-Toledo Instruments (Shanghai) Co., Ltd.**
No.589, GuiPing Road, Shanghai, 200233, P.R.of China
China

Equipment: **M400 G2 Series Multi-parameter Transmitter M400 Type * ***
Optional accessory:

Type of Protection: **increased safety "e", Intrinsic safety "i", Type of protection "n"**

Marking:

Ex ec ic nC IIC T4 Gc

Ambient temperature:(-20~+50)°C

*Approved for issue on behalf of the IECEx
Certification Body:*

Xu Jianping

Position:

Managing Director

*Signature:
(for printed version)*

Date:

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](http://www.iecex.com).

Certificate issued by:

**Shanghai Inspection and Testing Institute of Instruments and
Automatic Systems Co., Ltd. (SITIIS) / National Supervision and
Inspection Center for Explosion Protection and Safety of
Instrumentation (NEPSI)**
103 Cao Bao Road
Shanghai 200233
China



SITIIS
Worldwide Access



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Manufacturer: **Mettler-Toledo GmbH Process Analytics**
Im Hackacker 15, Urdorf, CH-8902
Switzerland

Additional Manufacturing location(s):

Mettler-Toledo Instruments (Shanghai) Co., Ltd.
No.589, GuiPing Road, Shanghai, 200233
China

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 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 : 2017 Edition:7.0 | Explosive atmospheres - Part 0: Equipment - General requirements |
| IEC 60079-11 : 2011 Edition:6.0 | Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i" |
| IEC 60079-15 : 2017 Edition:5.0 | Explosive atmospheres - Part 15: Equipment protection by type of protection "n" |
| 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:

[CN/NEP/ExTR19.0007/00](#)

Quality Assessment Report:

[CH/SEV/QAR12.0004/06](#)

[CN/NEP/QAR18.0003/01](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The M400 G2 Series Multi-parameter Transmitter is a multi-parameters and 4-wire transmitter, with 4(0) to 20 mA output signal and HART communication capabilities, for analytical measurements.

The transmitter consists of bottom and top housing. There are additional top inner and module cover to protect PCBs insides. Five entry holes on the bottom housing are used for separately certified cable gland or blanking plug. Inner sealing ring is used for degree of protection IP66. There are four soft keys on the top housing, which are designed by type of protection "ic". There are four relays used for output, which are designed by type of protection "nC".

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Avoid electrostatic discharge on enclosure surface, use wet cloth only for cleaning.
2. The display shall be protected from direct light (e.g. from sunlight or luminaires).
3. When installation in explosive atmosphere, cable gland separately certified according to IEC 60079-0:2017 and IEC 60079-7:2015 with marking Ex ec IIC IP66 shall be adopted.
4. Take protective measure to avoid risk of mechanical danger "high" on the display.
5. This equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
6. Observe the warning: DO NOT CONNECT OR DISCONNECT WHILE CIRCUIT IS LIVE UNLESS AREA IS KNOWN TO BE NON-HAZARDOUS! DO NOT OPEN WHILE ENERGIZED! Potential electrostatic charging hazard- see instructions!

Annex:

[Annex to IECEx NEP 19.0008X.00.pdf](#)

Shanghai Inspection and Testing Institute of Instruments
and Automatic Systems Co., Ltd. (SITI/IAS)

National Supervision and Inspection Center for Explosion
Protection and Safety of Instrumentation (NEPSI)

103 Cao Bao Road, Shanghai 200233, China



SITI/IAS
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Annex to IECEx Certificate of Conformity of IECEx NEP 19.0008X Issue No.0

1. Equipment model:

M400 Type * *

Not related with explosion protection.

Options not affecting safety, any alphanumeric code referring to non-electrical properties including documentation, delivery packing, language, and product associates, etc.

1, 2, 3

2. Rating

(20~30) VDC, (110~240) VAC

Um=253VAC