



Member of the FM Global Group

FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

M700 X Modular Measuring System.

NI / I / 2 / ABCD / T4 Ta = 50°C - 201.004-110; NIFW;
AIS / I, II, III / 1 / ABCDEFG - 201.004-110; Entity;
I / 2 / AEx nA IIC / T4 Ta = 50°C - 201.004-110; NIFW;
I / 1 / AEx me ib [ja] IIC / T4 Ta = 50°C - 201.004-110; Entity; Type 4X
Refer to control drawing 201.004-110 for entity parameters
The M700 X Modular Measuring System consists of the following modules:

BASE M 700 Xa/b. Power Supply.

NI / I / 2 / ABCD / T4 Ta = 50°C - 201.004-110; NIFW;
AIS / I, II, III / 1 / ABCDEFG - 201.004-110; Entity;
I / 2 / AEx nA IIC / T4 Ta = 50°C - 201.004-110; NIFW;
I / 1 / AEx me ib [ja] IIC / T4 Ta = 50°C - 201.004-110; Entity
Refer to control drawing 201.004-110 for entity parameters
a = Enclosure material C or S.
b = Power supply option 24V or VPW.

FRONT M 700 Xa-015. Door.

NI / I / 2 / ABCD / T4 Ta = 50°C - 201.004-110
I / 2 / AEx nA IIC / T4 Ta = 50°C - 201.004-110
I / 1 / AEx ib IIC / T4 Ta = 50°C - 201.004-110
a = Enclosure material C or S.

PH 2700 X PH Measuring Module.

NI / I / 2 / ABCD / T4 Ta = 50°C - 201.004-110; NIFW;
IS / I / 1 / ABCD / T4 Ta = 50° - 201.004-110; Entity;
I / 2 / AEx nA IIC / T4 Ta = 50°C - 201.004-110; NIFW;
I / 1 / AEx ib [ja] IIC / T4 Ta = 50°C - 201.004-110; Entity
Refer to control drawing 201.004-110 for entity parameters

PH 2700i X. PH Measuring Module.

NI / I / 2 / ABCD / T4 Ta = 50°C - 201.004-110; NIFW;
IS / I / 1 / ABCD / T4 Ta = 50° - 201.004-110; Entity;
I / 2 / AEx nA IIC / T4 Ta = 50°C - 201.004-110; NIFW;
I / 1 / AEx ib [ja] IIC / T4 Ta = 50°C - 201.004-110; Entity
Refer to control drawing 201.004-110 for entity parameters

CO2 5700i X. CO2 Measuring Module.

NI / I / 2 / ABCD / T4 Ta = 50°C - 201.004-110; NIFW;
IS / I / 1 / ABCD / T4 Ta = 50° - 201.004-110; Entity;
I / 2 / AEx nA IIC / T4 Ta = 50°C - 201.004-110; NIFW;
I / 1 / AEx ib [ja] IIC / T4 Ta = 50°C - 201.004-110; Entity
Refer to control drawing 201.004-110 for entity parameters

COND 7700 X. Conductivity Module.

NI / I / 2 / ABCD / T4 Ta = 50°C - 201.004-110; NIFW;
IS / I / 1 / ABCD / T4 Ta = 50° - 201.004-110; Entity;
I / 2 / AEx nA IIC / T4 Ta = 50°C - 201.004-110; NIFW;
I / 1 / AEx ib [ja] IIC / T4 Ta = 50°C - 201.004-110; Entity
Refer to control drawing 201.004-110 for entity parameters

O2 4700 X a. Oxygen Module.

NI / I / 2 / ABCD / T4 Ta = 50°C - 201.004-110; NIFW;
IS / I / 1 / ABCD / T4 Ta = 50° - 201.004-110; Entity;
I / 2 / AEx nA IIC / T4 Ta = 50°C - 201.004-110; NIFW;
I / 1 / AEx ib [ja] IIC / T4 Ta = 50°C - 201.004-110; Entity
Refer to control drawing 201.004-110 for entity parameters
a = Application option ppb or blank.

O2 4700i X a. Oxygen Module.

NI / I / 2 / ABCD / T4 Ta = 50°C — 201.004-110; NIFW;
IS / I / 1 / ABCD / T4 Ta = 50° — 201.004-110; Entity;
I / 2 / AEx nA IIC / T4 Ta = 50°C — 201.004-110; NIFW;
I / 1 / AEx ib [ja] IIC / T4 Ta = 50°C — 201.004-110; Entity
Refer to control drawing 201.004-110 for entity parameters
a = Application option ppb or blank.

EC 700 X. Easy Clean.

NI / I / 2 / ABCD / T4 Ta = 50°C - 201.004-110; NIFW;
IS / I / 1 / ABCD / T4 Ta = 50° - 201.004-110; Entity;
I / 2 / AEx nA IIC / T4 Ta = 50°C - 201.004-110; NIFW;
I / 1 / AEx ib [ja] IIC / T4 Ta = 50°C - 201.004-110; Entity
Refer to control drawing 201.004-110 for entity parameters

COND IND 7700 X. Inductive Conductivity Module.

NI / I / 2 / ABCD / T4 Ta = 50°C - 201.004-110; NIFW;
IS / I / 1 / ABCD / T4 Ta = 50° - 201.004-110; Entity;
I / 2 / AEx nA IIC / T4 Ta = 50°C - 201.004-110; NIFW;
I / 1 / AEx ib [ja] IIC / T4 Ta = 50°C - 201.004-110; Entity
Refer to control drawing 201.004-110 for entity parameters

OUT 700 X. Output Module.

NI / I / 2 / ABCD / T4 Ta = 50°C - 201.004-110; NIFW;
IS / I / 1 / ABCD / T4 Ta = 50° - 201.004-110; Entity;
I / 2 / AEx nA IIC / T4 Ta = 50°C - 201.004-110; NIFW;
I / 1 / AEx ib [ja] IIC / T4 Ta = 50°C - 201.004-110; Entity
Refer to control drawing 201.004-110 for entity parameters

PID 700 X. PID Controller Module.

NI / I / 2 / ABCD / T4 Ta = 50°C - 201.004-110; NIFW;
IS / I / 1 / ABCD / T4 Ta = 50° - 201.004-110; Entity;
I / 2 / AEx nA IIC / T4 Ta = 50°C - 201.004-110; NIFW;
I / 1 / AEx ib [ja] IIC / T4 Ta = 50°C - 201.004-110; Entity
Refer to control drawing 201.004-110 for entity parameters

PA 700 X. Communication Module.

NI / I / 2 / ABCD / T4 Ta = 50°C - 201.004-110; NIFW;
IS / I / 1 / ABCD / T4 Ta = 50° - 201.004-110; Entity;
I / 2 / AEx nA IIC / T4 Ta = 50°C - 201.004-110; NIFW;
I / 1 / AEx ib [ia] IIC / T4 Ta = 50°C - 201.004-110; Entity
Refer to control drawing 201.004-110 for entity parameters

FF 700 X. Communication Module.

NI / I / 2 / ABCD / T4 Ta = 50°C - 201.003-170; NIFW;
IS / I / 1 / ABCD / T4 Ta = 50° - 201.003-170; Entity;
I / 2 / AEx nA IIC / T4 Ta = 50°C - 201.003-170; NIFW;
I / 1 / AEx ib [ia] IIC / T4 Ta = 50°C - 201.003-170; Entity
Refer to control drawing 201.003-170 for entity parameters

Special Condition of Use:

1. *The M 700 X System may only be configured with the modules identified above.*
2. *The modules identified above shall only be used with the M 700 X System.*
3. *The O2 4700 X Oxygen Module shall not be used in oxygen enriched environments with oxygen concentrations greater than 21% by volume.*

Equipment Ratings:

Nonincendive for use in Class I, Division 2, Groups A, B, C and D and Class I, Zone 2, Group IIC;
Associated Intrinsically Safe Apparatus for connection to Class I, II and III, Division 1, Groups A, B, C, D,
E, F and G and Class I, Zone 0, Group IIC in accordance with Entity requirements and control drawing
201.004-110; Suitable for use in Class I, Zone 1, Group IIC Indoor and Outdoor (Type 4X) Hazardous
(Classified) Locations

FM Approved for:

Mettler Toledo GmbH
IM Hackacker 15
CH-8902 Urdorf
Switzerland

This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

Class 3600	1998
Class 3610	1999
Class 3611	2004
Class 3810	2005
ANSI/ISA-12.00.01	2002
ANSI/ISA-12.12.02	2002
ANSI/ISA-12.16.01	2002
ANSI/ISA-12.23.01	2002
ANSI/NEMA 250	1991

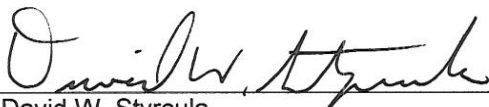
Original Project ID: 3026712

Approval Granted: May 17, 2006

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
3027849	10-4-06		

FM Approvals LLC



David W. Styracula
Technical Team Manager

10-4-06
Date