

Certificate of Compliance

Certificate: 2352860 Master Contract: 205557

Issued To: Endress+Hauser Conducta GmbH & Co. KG

Dieselstraße 24

Gerlingen, Baden-Württemberg, 70839

Germany

Attention: Henryk Hofmann

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.

Zahra Amini

Issued by:

Zahra Amini



PRODUCTS

CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-incendive

Systems - For Hazardous Locations

CLASS 2258 83 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-incendive

Systems - For Hazardous Locations - Certified to US Standards

Class I, Division 2, Groups A, B, C and D:

Field housing transmitters

1) Liquiline, type xM442-abcdefgh. Field-housing transmitter for liquid analysis. Input rated 100-230Vac, 50/60Hz, 55VA (AC Version) or 24Vac, 50/60Hz, 55VA, 24Vdc, 22Watts (24Vac/dc Version); One set of relay contacts rated 250Vac, 0.5 Amps (alarm contacts) another 2 or 4 sets rated 250Vac, 2 Amps, 2 or 4 4-20mA signal circuits, probe and sensor connections all SELV, communication (HART, PROFIBUS DP, Modbus, EtherNet/IP, PROFINET), 1 set of 2 digital inputs and 2 digital outputs (passive), with auxiliary voltage 24V DC (max. 50mA). Temperature Code T4A. -20°C ≤ Tamb ≤ +60°C. Provides non-incendive field wiring connection to field sensors when installed per control drawing 961006059. Enclosure Type 4X, IP66/67.



Note: Prefix x = C or O or OC

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xM442 Approved Order code options
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a = approval = CD
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b = sensor input = M1, M2, N1, N2

CG, CH, CJ, CK

d = additional function = FA, FD, F0, F2, F4

e = power supply = 1, 6, 7

f = cable entry = 0, 1,

g = cable entry set = A, B

h = *** Non Critical for Hazloc

2) Liquiline, type xM444-abcdefghij, xM448-abcdefgh. Field-housing transmitter for liquid analysis. Input rated 100-230Vac, 50/60Hz, 73VA (AC Version) or 24Vdc, max. 68Watts (24Vdc Version); One set of relay contacts rated 250Vac, 0.5 Amps (alarm contacts) another 2 or 4 sets rated 250Vac, 2 Amps, 2 or 4 4-20mA signal circuits, probe and sensor connections all SELV, communication (HART, PROFIBUS DP, Modbus, EtherNet/IP, PROFINET), 1 or 2 sets of 2 digital inputs and 2 digital outputs (passive), with auxiliary voltage 24V DC (max. 50mA). Temperature Code T4A, -20°C ≤ Tamb ≤ +55°C, and -20°C ≤ Tamb ≤ +50°C (for selected packages). Provides non-incendive field wiring connection to field sensors when installed per control drawing 961006059. Enclosure Type 4X, IP66/67.

Note: Prefix x = C or O or OC

xM444 Approved Order code options

a = approval = CD

b = sensor input = M2, M4, N1, N2, N4

c = communications = A, B, C, D, J, 0, 1, 2, 3, 4, 5, 6, 7

d = analog output = A0, A1, A3, A5, A7

e = additional features = FA, FE, FF, FG, FH, FI, FK, FM, F0, F2, F4

f = power supply = 1, 6

g = cable entry = 0, 1

h = female jack Fieldbus communication = BA, BB, BC, BD

i = cable entry set = A, B

i= *** Non- Critical for Hazloc

xM448 Approved Order Code options:

```
a = approval = CD
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b = communication = A, B, C, D, J, 0, 1, 2, 3, 4, 5, 6, 7

c = digital sensor output/input = 2A6, 2A7, 6AA, 6A1, 6A3, 6A5, 6A6, 6A7, 6A8, 8A2, 8A3, 8A4, 8A5

d = power supply = 1, 6

e = cable entry housing, sensor = AA, AB, AD, AE

f = female jack Fieldbus communication = BA, BB, BC, BD



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g = cable entry set = A, B
h = *** Non Critical for Hazloc
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3) Liquiline, type xM44P- abchefghijklm (FIH option). Input rated 100-230Vac, 50/60Hz, max. 73VA (AC Version) or 24Vdc, max. 68 Watts (24Vdc Version). One set of relay contacts rated 250V ac, 0.5 Amps (alarm contacts) another 2 or 4 sets rated 250Vac, 2 Amps. 2 or 4 4-20mA signal circuits, probe and sensor connections all SELV, communication (HART, PROFIBUS DP, Modbus, EtherNet/IP, PROFINET), 1 or 2 sets of 2 digital inputs and 2 digital outputs (passive), with auxiliary voltage 24V DC (max. 50mA); Temperature Code T4A, -20°C ≤ Ta ≤ 50° C; Provides non-incendive field wiring connection to field sensors when installed per control drawing 961006059. External power supply is in hazardous location. Enclosure Type 4X, IP66/67.

Note: Prefix x = C or O or OC

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xM44P (FIH) Approved Order Code options:
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a = approval = CD
b = housing = FIH
c = optional sensor input = P1, P2, S1
d = sensor input = M0, M2, M4, N2, N4
e = digital communication = A, B, C, D, J, 0, 1, 2, 3
f = analog output = A0, A1, A3, A5, A7
g = additional features = FA, FE, FF, FG, FH, FI, FK, FM, F0, F2, F4
h = power supply = 1, 6
i = cable entry housing = 0, 1, 5
j = female jack Fieldbus communication = BA, BB, BC
k = cable entry set = A, B, E
l = calibration = A, B
m= *** Non-Critical for Hazloc
```

Rail mount transmitters:

1) Liquiline, type xM442R-abcdeh, Rail-mount transmitter for liquid analysis. Input rated 100-230Vac, 50/60Hz, 55VA (AC Version) or 24Vac, 50/60Hz, 55VA, 24Vdc, 22Watts (24Vac/dc Version). One set of relay contacts rated 250Vac, 0.5 Amps (alarm contacts) another 2 or 4 sets rated 250Vac, 2 Amps, 2 or 4 4-20mA signal circuits, probe and sensor connections all SELV, communication (HART, PROFIBUS DP, Modbus, EtherNet/IP, PROFINET), 1 set of 2 digital inputs and 2 digital outputs (passive), with auxiliary voltage 24V DC (max. 50mA). Temperature Code T4A, 0°C ≤ Tamb ≤ +60°C. Provides non-incendive field wiring connection to field sensors when installed per control drawing 961006059. Installed in a cabinet connected to an external graph display, cabinet 71185295 in hazardous location. External power supply is in hazardous location.

Note: Prefix x = C or O or OC

xM442R Approved Order code options

a = approval = CD



```
b = sensor input = M1, M2
c = communication = A1, A2, A3, A4, BA, BD, B6, B8, CA, CC, CE, CG, CJ
d = additional features = FA, FD, F0, F2, F4
e = power supply = 1, 6, 7
h = *** Non-Critical for Hazloc
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2) Liquiline, type xM444R-abcdefj, xM448R-abcdh, Rail-mount transmitter for liquid analysis. Input rated, 24Vdc, max. 50Watts. One set of relay contacts rated 250Vac, 0.5 Amps (alarm contacts) another 2 or 4 sets rated 250Vac, 2 Amps, 2 or 4 4-20mA signal circuits, probe and sensor connections all SELV, communication (HART, PROFIBUS DP, Modbus, EtherNet/IP, PROFINET), 1 or 2 sets of 2 digital inputs and 2 digital outputs (passive), with auxiliary voltage 24V DC (max. 50mA). Temperature Code T4A, 0°C ≤ Tamb ≤ +55°C and 0°C ≤ Tamb ≤ +50°C (for selected packages). Provides non-incendive field wiring connection to field sensors when installed per control drawing 961006059. Installed in a cabinet connected to an external graph display, cabinet 71185295 in hazardous location. External power supply is in hazardous location.

Note: Prefix x = C or O or OC

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xM444R Approved Order code options
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a = approval = CD

b = sensor input = M2, M4

c = communication = A, B, C, D, J, 0, 1, 2, 3, 4, 5, 6, 7

d = analog output = A0, A1, A3, A5, A7

e = additional features = FA, FE, FF, FG, FH, FI, FK, FM, F0, F2, F4

f = power supply = 1, 6

j = *** Non-Critical for Hazloc
```

xM448R Approved Order Code options:

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a = approval = CD
b = communication = A, B, C, D, J, 0, 1, 2, 3, 4, 5, 6, 7
c = digital sensor output/input = 2A6, 2A7, 6AA, 6A1, 6A3, 6A5, 6A6, 6A7, 6A8, 8A2, 8A3, 8A4, 8A5
d = power supply = 1, 6
h = *** Non Critical for Hazloc
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3) Liquiline, type xM44P -abchefghlm (DIN option). Input rated 24Vdc, max. 50 Watts. One set of relay contacts rated 250V ac, 0.5 Amps (alarm contacts) another 2 or 4 sets rated 250Vac, 2 Amps, 2 or 4 4-20mA signal circuits, probe and sensor connections all SELV, communication (HART, PROFIBUS DP, Modbus, EtherNet/IP, PROFINET), 1 or 2 sets of 2 digital inputs and 2 digital outputs (passive), with auxiliary voltage 24V DC (max. 50mA); Temperature Code T4A, 0°C ≤ Ta ≤ 50° C; Provides non-incendive field wiring connection to field sensors when installed per control drawing 961006059. Installed in a cabinet connected to an external graph display, cabinet 71185295 in hazardous location. External power supply is in hazardous location.

Note: Prefix x = C or O or OC

xM44P (FIH) Approved Order Code options:



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a = approval = CD

b = housing = DIN

c = optional sensor input = P1, P2, S1

d = sensor input = M0, M2, M4, N2, N4

e = digital communication = A, B, C, D, J, 0, 1, 2, 3

f = analog output = A0, A1, A3, A5, A7

g = additional features = FA, FE, FF, FG, FH, FI, FK, FM, F0, F2, F4

h = power supply = 1, 6

1 = calibration = A, B

m= *** Non Critical for Hazloc
```

Approved cabinets and sensors for use with the transmitters above

- 1) External graph display, cabinet 71185295 for xM442R, xM444R, xM448R; ambient temperature -20 to 60°C; IP66/ Type 4X enclosure. Installed as per control drawing 961006059.
- 2) xCS142D membrane-covered sensor, connected to transmitter xM44x(R) with a measuring cable xYK10 or xYK20 with a maximum cable length of 100m. Temperature Code T6, -5°C ≤ Tamb ≤ +55°C. Input voltage Vmax: 5.7V, Input power: 180mW.
- 3) Memosens Sensors: xCS50D, xCS51D, xCS55D, xCS58D, xCS120D, connected to transmitter xM44x(R) with a measuring cable xYK10 or xYK20 with a maximum cable length of 100m. Temperature Code T6, 0°C ≤ Tamb ≤ +60°C. Input voltage Vmax: 3.5V, Input power: 15mW.

Conditions of Acceptability:

- Power to rail mount controllers xM444R, xM448R, and xM44P to be supplied by power supplies certified for Class I, Division 2, GP A, B, C and D.
- The xM442, xM444R, xM448R, and xM44P (DIN) version shall be completely installed inside a suitable Type rated enclosure, appropriate for the end application, and acceptable to the Authority Having Jurisdiction (AHJ).

Class I, Division 2, Groups A, B, C and D, T4A; Associated Intrinsically Safe outputs to Class I Division 1, Group A, B, C, D [Ex ia Ga] IIC

Field housing transmitters

1) Liquiline, type xM442-abc-efgh, Field-housing transmitter for liquid analysis. Input rated 100-230Vac, 50/60Hz, 55VA (AC Version) or 24Vac, 50/60Hz, 55VA, 24Vdc, 22Watts (24Vac/dc Version); One set of relay contacts rated 250Vac, 0.5 Amps (alarm contacts), two 4-20mA signal circuits, probe and sensor connections all SELV, communication (HART, PROFIBUS DP, Modbus, EtherNet/IP, PROFINET), Temperature Code T4A. -20°C ≤ Tamb ≤ +50°C. Provides associated Intrinsically Safe connection to field sensors from installed 2DS Ex I modules (terminals 87i, 88i, 97i, 98i) when installed per control drawing 961006059. Enclosure Type 4X, IP66/67.



Note: Prefix x = C or O or OC

xM442 Approved Order Code options:

a = approval = CL b = sensor input = M2

c = communications = CA, CB, CC, CD, CE, CF, CG, CH, CJ, CK

e = power supply = 1, 6, 7

f = cable entry = 0, 1

g = cable entry set = A, B

h = *** Non-Critical for Hazloc

2) Liquiline, type xM444-abcdefghij, xM448-abcdefgh, Field-housing transmitter for liquid analysis. Input rated 100-230Vac, 50/60Hz, 73VA (AC Version) or 24Vdc, max. 68Watts (24Vdc Version); One set of relay contacts rated 250Vac, 0.5 Amps (alarm contacts) another 2 or 4 sets rated 250Vac, 2 Amps, 2 or 4 4-20mA signal circuits, probe and sensor connections all SELV, communication (HART, PROFIBUS DP, Modbus, EtherNet/IP, PROFINET), 1 or 2 sets of 2 digital inputs and 2 digital outputs (passive), with auxiliary voltage 24Vdc (max. 50mA). Temperature Code T4A, -20°C ≤ Tamb ≤ +50°C. Provides associated Intrinsically Safe connection to field sensors from installed 2DS Ex I modules (terminals 87i, 88i, 97i, 98i) when installed per control drawing 961006059. Enclosure Type 4X, IP66/67.

Note: Prefix x = C or O or OC

xM444 Approved Order Code options:

a = approval = CL

b = sensor input = M2, M4

c = communications = A, B, C, D, J, 0, 1, 2, 3

d = analog output = A0, A1, A3, A5, A7

e = additional features = FA, FE, FF, FG, FH, FI, FK, FM, F0, F2, F4

f = power supply = 1, 6

g = cable entry = 0, 1

h = female jack Fieldbus communication = BA, BB, BC

i = cable entry set = A, B

j= *** Non-Critical for Hazloc

xM448 Approved Order Code options:

a = approval = CL

b = communication = A, B, C, D, J, 0, 1, 2, 3

c = digital sensor output/input = 2A6, 6AA, 6A1, 6A3, 6A5, 6A6, 6A7, 6A8

d = power supply = 1, 6

e = cable entry housing, sensor = AA, AB

f = female jack Fieldbus communication = BA, BB, BC

g = cable entry set = A, B

h = *** Non Critical for Hazloc



3) Liquiline, type xM44P- abchefghijklm (FIH option). Input rated 100-230Vac, 50/60Hz, max. 73VA (AC Version) or 24Vdc, max. 68 Watts (24Vdc Version). One set of relay contacts rated 250Vac, 0.5 Amps (alarm contacts) another 2 or 4 sets rated 250Vac, 2 Amps. two or 4 4-20mA signal circuits, probe and sensor connections all SELV, communication (HART, PROFIBUS DP, Modbus, EtherNet/IP, PROFINET), 1 or 2 sets of 2 digital inputs and 2 digital outputs (passive), with auxiliary voltage 24V DC (max. 50mA); Temperature Code T4A, -20°C ≤ Ta ≤ 50° C; Provides associated Intrinsically Safe connection to field sensors from installed 2DS Ex I modules (terminals 87i, 88i, 97i, 98i) when installed per control drawing 961006059. Enclosure Type 4X, IP66/67.

Note: Prefix x = C or O or OC

xM44P (FIH) Approved Order Code options:

 $a = approval = \hat{CL}$

b = housing = FIH

c = optional sensor input = P1, P2, S1

d = sensor input = M2

e = digital communications = A, B, C, D, J, 0, 1, 2, 3

f = analog output = A0, A1, A3, A5, A7

g = additional features = FA, FE, FF, FG, FH, FI, FK, FM, F0, F2, F4

h = power supply = 1, 6

i = cable entry housing = 0, 1

j = female jack Fieldbus communication = BA, BB, BC

k = cable entry set = A, B

l = calibration = A, B

m= *** Non-Critical for Hazloc

Rail mount transmitters:

1) Liquiline, type xM442R-abc-eh, Rail-mount transmitter for liquid analysis. Input rated 100-230Vac, 50/60Hz, 55VA (AC Version) or 24Vac, 50/60Hz, 55VA, 24Vdc, 22Watts (24Vac/dc Version). One set of relay contacts rated 250Vac, 0.5 Amps (alarm contacts) two 4-20mA signal circuits, probe and sensor connections all SELV, communication (HART, PROFIBUS DP, Modbus, EtherNet/IP, PROFINET), Temperature Code T4A, 0°C ≤ Tamb ≤ +50°C. Provides associated Intrinsically Safe connection to field sensors from installed 2DS Ex I modules (terminals 87i, 88i, 97i, 98i) when installed per control drawing 961006059. Enclosure is installed in a cabinet connected to an external graph display, cabinet 71185295 in hazardous location. External power supply is in hazardous location.

Note: Prefix x = C or O or OC

xM442R Approved Order Code options:

a = approval = CL

b = sensor input = M2

c = communication = CA, CB, CC, CD, CE, CF, CG, CH, CJ, CK

e = power supply = 1, 6, 7

h = *** Non-Critical for Hazloc



2) Liquiline, type xM444R-abcdefj, xM448R-abcdh, Rail-mount transmitter for liquid analysis. Input rated 24Vdc, max. 50Watts. One set of relay contacts rated 250Vac, 0.5 Amps (alarm contacts) another 2 or 4 sets rated 250Vac, 2 Amps, 2 or 4 4-20mA signal circuits, probe and sensor connections all SELV, communication (HART, PROFIBUS DP, Modbus, EtherNet/IP, PROFINET), 1 or 2 sets of 2 digital inputs and 2 digital outputs (passive), with auxiliary voltage 24Vdc (max. 50mA). Temperature Code T4A, 0°C ≤ Tamb ≤ +50°C. Provides associated Intrinsically Safe connection to field sensors from installed 2DS Ex I modules (terminals 87i, 88i, 97i, 98i)-when installed per control drawing 961006059. Enclosure is installed in a cabinet connected to an external graph display, cabinet 71185295 in hazardous location. External power supply is in hazardous location.

Note: Prefix x = C or O or OC

```
xM444R Approved Order Code options:
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a = approval = CL

b = sensor input = M2, M4

c = communication = A, B, C, D, J, 0, 1, 2, 3

d = analog output = A0, A1, A3, A5, A7

e = additional features = FA, FE, FF, FG, FH, FI, FK, FM, F0, F2, F4

f = power supply = 1, 6

j= *** Non-Critical for Hazloc

xM448R Approved Order Code options:

a = approval = CL

b = communications = A, B, C, D, J, 0, 1, 2, 3

c = digital sensor output/input = 2A6, 6AA, 6A1, 6A3, 6A5, 6A6, 6A7, 6A8

d = power supply = 1, 6

h = *** Non-Critical for Hazloc

3) Liquiline, type xM44P -abchefghl (DIN option). Input rated 24Vdc, max. 50 Watts. One set of relay contacts rated 250V ac, 0.5 Amps (alarm contacts) another 2 or 4 sets rated 250Vac, 2 Amps, two or 4 4-20mA signal circuits, probe and sensor connections all, communication (HART, PROFIBUS DP, Modbus, EtherNet/IP, PROFINET), 1 or 2 sets of 2 digital inputs and 2 digital outputs (passive), with auxiliary voltage 24Vdc (max. 50mA); Temperature Code T4A, 0°C ≤ Ta ≤ 50° C; Provides associated I.S. connection to field sensors from installed 2DS Ex I modules (terminals 87i, 88i, 97i, 98i) when installed per control drawing 961006059 Enclosure is installed in a cabinet connected to an external graph display, cabinet 71185295 in hazardous location. External power supply is in hazardous location.

Note: Prefix x = C or O or OC

xM448P (DIN) Approved Order Code options:

a = approval = CL

b = housing = DIN

c = optional sensor input = P1, P2, S1



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d = sensor input = M2

e = digital communication = A, B, C, D, J, 0, 1, 2, 3

f = analog output = A0, A1, A3, A5, A7

g = additional features = FA, FE, FF, FG, FH, FI, FK, FM, F0, F2, F4

h = power supply = 1, 6

l = calibration = A, B

m= *** Non Critical for Hazloc
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Approved cabinets, sensors, and associated apparatus modules for use with the transmitters above

- 1) External graph display, cabinet 71185295 for xM442R, xM444R, xM448R; ambient temperature -20 to 60°C; IP66/ Type 4X enclosure. Installed as per control drawing 961006059.
- 2) xCS142D membrane-covered sensor, connected to transmitter xM44x(R) with a measuring cable xYK10 or xYK20 with a maximum cable length of 100m. Temperature Code T6, -5°C ≤ Tamb ≤ +55°C. Input voltage Vmax: 5.7V, Input power: 180mW.
- 3) Memosens Sensors: xCS50D, xCS51D, xCS55D, xCS58D, xCS120D, connected to transmitter xM44x(R) with a measuring cable xYK10 or xYK20 with a maximum cable length of 100m. Temperature Code T6, 0°C ≤ Tamb ≤ +60°C. Input voltage Vmax: 3.5V, Input power: 15mW.

4) 2DS Ex I modules

Intrinsically safe connections (sensor 1 and sensor 2) - light blue connection terminals: 87i, 88i, 97i, 98i per terminal connection when installed per drawing 961006059.

Allowed sensors/connections in Zone 0/Div 1:

- a. xLS50D sensors
- b. Cables xYK10 or xYK20 with the following sensors with a max cable length of 100m.
 - 1. Digital Memosens Sensors per listed CSA report 80021719
 - 2. Digital Memosens 2.0 sensors listed per CSA 80021490
 - 3. xYP03D

Conditions of Acceptability:

- Power to rail mount controllers xM444R, xM448R, and xM44P to be supplied by power supplies certified for Class I, Division 2, Groups A, B, C and D.
- The xM442, xM444R, xM448R, and xM44P (DIN) version shall be completely installed inside a suitable Type rated enclosure, appropriate for the end application, and acceptable to the Authority Having Jurisdiction (AHJ).



Certificate: 2352860 **Project:** 80158246

Master Contract: 205557 Date Issued: Dec 28, 2023

APPLICABLE REQUIREMENTS

Safety requirements for electrical equipment for
measurement, control,
and laboratory use — Part 1: General requirements
Safety requirements for electrical equipment for
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measurement, control,
and laboratory use — Part 1: General requirements
Enclosures for Electrical Equipment, Environmental
Considerations
Enclosures for Electrical Equipment, Environmental
Considerations
Explosive atmospheres –
Part 0: Equipment – General requirements
Explosive atmospheres –
Part 0: Equipment – General requirements
Explosive atmospheres –
Part 11: Equipment protection by intrinsic safety "i"
Explosive atmospheres –
Part 11: Equipment protection by intrinsic safety "i"
Nonincendive electrical equipment for use in Class I and II,
Division 2 and Class III, Divisions 1 and 2 hazardous
(classified) locations
Nonincendive Electrical Equipment for Use in Class I and II,
Division 2 and Class III, Division 1 and 2 Hazardous
(Classified) Locations.

MARKINGS

As per CSA Descriptive report

Notes:

Products certified under Class C225803, C225883 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





Supplement to Certificate of Compliance

Certificate: 2352860 Master Contract: 205557

The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
80158246	2023-12-28	 Evaluation to update cCSAus report # 2352860 to assess the following: Add alternate enclosure materials Add Bluetooth module FWBT1 Add alternate connectors Update to CSA C22.2 No. 213-17/ UL 121201 9th Edition per certification notice Hazardous Locations Products No. 28
80094716	2022-04-26	Evaluation for update of CSA report 2352860 to assess the following changes:
		 Add alternate transformer: PREMO, X-18792-003R1 Add new sensor card: 2DS Ex-i module Use the Phoenix connector FKC 2,5 / 4-ST-5,08 for modules BASE2-X, AOR, FA2R1 and FA4R1. Addition of KSAM2 electronics to sensors.
80069885	2021-03-12	Update to cCSAus report # 2352860 for intrinsically safe and non-incendive Memosens Sensors to add a new ozone sensor model xCS58D using existing electronics, a new membrane, electrolyte and housing material POM.
80008137	2019-11-04	Update CSA report 2352860 for the following modifications:
		 Introduction of new model xM44P with PCB module FSIP1 photometer (PEM-module) and FSDG3 SPECTRO (SEM-module) Minor changes that affect xM44x.xM44xR, xM44P Addition of alternate relays
70208479	2019-02-25	Update CSA report 2352860 to include two new type of Disinfection sensor models xCS5xD and xCS120D for NI Class I Div. 2, Grps ABCD, T6. 0 °C \leq Ta \leq +60 °C. Additionally some minor modifications to the CMR44x (R) transmitter components.
70155895	2018-02-23	Update CSA report 2352860 to include additional Liquiline models; xM442R, xM444/8 & xM444/8R, additional sensor models; xPS171D,



xLS82D, xOS81D, xCS142D & CLS50D and an external display for railmount model to use in Class I, Division 2. In addition, assessment of minor modifications to the existing electronics and update of applicable standards.

70100152	2016-10-19	Update to CSA report 2352860 to include an alternate SD card holder and subsequent changes to certification drawings.
70046559	2016-03-03	Update to include several minor drawing changes.
2556622	2012-12-24	Update to include Hart and Fieldbus modules and other minor circuitry changes.
2391256	2011-02-04	Update to include addition of I/O modules.
2352860	2010-11-10	CSAc/us Non-Incendive Certification of Liquidline Transmitter, type CM442 Series to Class I, Div. 2, Groups A, B, C & D.







