



Certificate of Compliance

Certificate: 1863602

Master Contract: 237481

Project: 1897714

Date Issued: 2007/05/08

Issued to: INOR Process AB

Slipstengatan 6
Malmö, 223 76
Sweden
Attention: Mr. Gert Paulsson

The products listed below are eligible to bear the CSA Mark shown



Issued by: Edward Foo, C.E.T.

Authorized by: Patricia Pasemko, Operations
Manager

PRODUCTS

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For
Hazardous Locations

Class I, Groups A, B, C & D:

- 4-20 mA Temperature Transmitter, Model IPAQ-HX, Intrinsically Safe with Entity Parameters $V_{max} = 30$ V, $I_{max} = 100$ mA, $P_{max} = 900$ mW, $C_i = 0$ uF, $L_i = 2.5$ mH (Terminals 5 & 6) and $V_{oc} = 30$ V, $I_{sc} = 25$ mA, $C_a = 0.12$ uF, $L_a = 56.8$ mH (Terminals 1, 2, 3 & 4) per Installation Dwg. 3-7851. Temperature Code T4 at $T_a = 80$ °C.
- Temperature Transmitter, Models APAQ-HRFX and APAQ-HCFX, Intrinsically Safe with Entity Parameters $V_{max} = 30$ V, $I_{max} = 100$ mA, $P_{max} = 700$ mW, $C_i = 0$ uF, $L_i = 0$ mH (Terminals 4 & 5) and $V_{oc} = 30$ V, I_{sc}



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= 95.8 mA, Ca = 0.12 uF, Li = 4 mH (Terminals PL1, PL2 & PL3) per Installation Dwg. 3-7892. Temperature Code T4 at Ta = 80 °C.

Class I, Groups A, B, C & D; Class II, Groups E, F & G; Class III:

- 4-20 mA Temperature Transmitter, Model IPAQ-LX, associated apparatus with Intrinsically Safe output with Entity Parameters Vmax = 30 V, Imax = 100 mA, Pmax = 900 mW, Ci = n/a, Li = n/a (Terminals 5 & 6) and Voc = 30 V, Isc = 25 mA, Ca = 0.12 uF, Li = 56.8 mH (Terminals 1, 2, 3 & 4) per Installation Dwg. 3-7852.

Note: Transmitter is installed in safe area.

Class I, Groups A, B, C & D; Class II, Group G; Class III:

- Temperature Sensor, Model MESO-HX, Intrinsically Safe with Entity Parameters Vmax = 30 V, Imax = 100 mA, Pmax = 900 mW, Ci = 0 uF, Li = 0 mH (Terminals PL5 & PL6) and Voc = 30 V, Isc = 25 mA, Ca = 0.12 uF, Li = 56.8 mH (Terminals PL1, PL2, PL3 & PL4) per Installation Dwg. 3-7967. Temperature Code T4 at Ta = 80 °C.

APPLICABLE REQUIREMENTS

CSA Std C22.2 No. 25-1966 - Enclosures for Use in Class II, Groups E, F and G Hazardous Locations

CSA Std. C22.2 No. 142-M1987 - Process Control Equipment

CAN/CSA-C22.2 No. 157-92 - Intrinsically Safe and Non-Incendive Equipment

for Use in Hazardous Locations



Supplement to Certificate of Compliance

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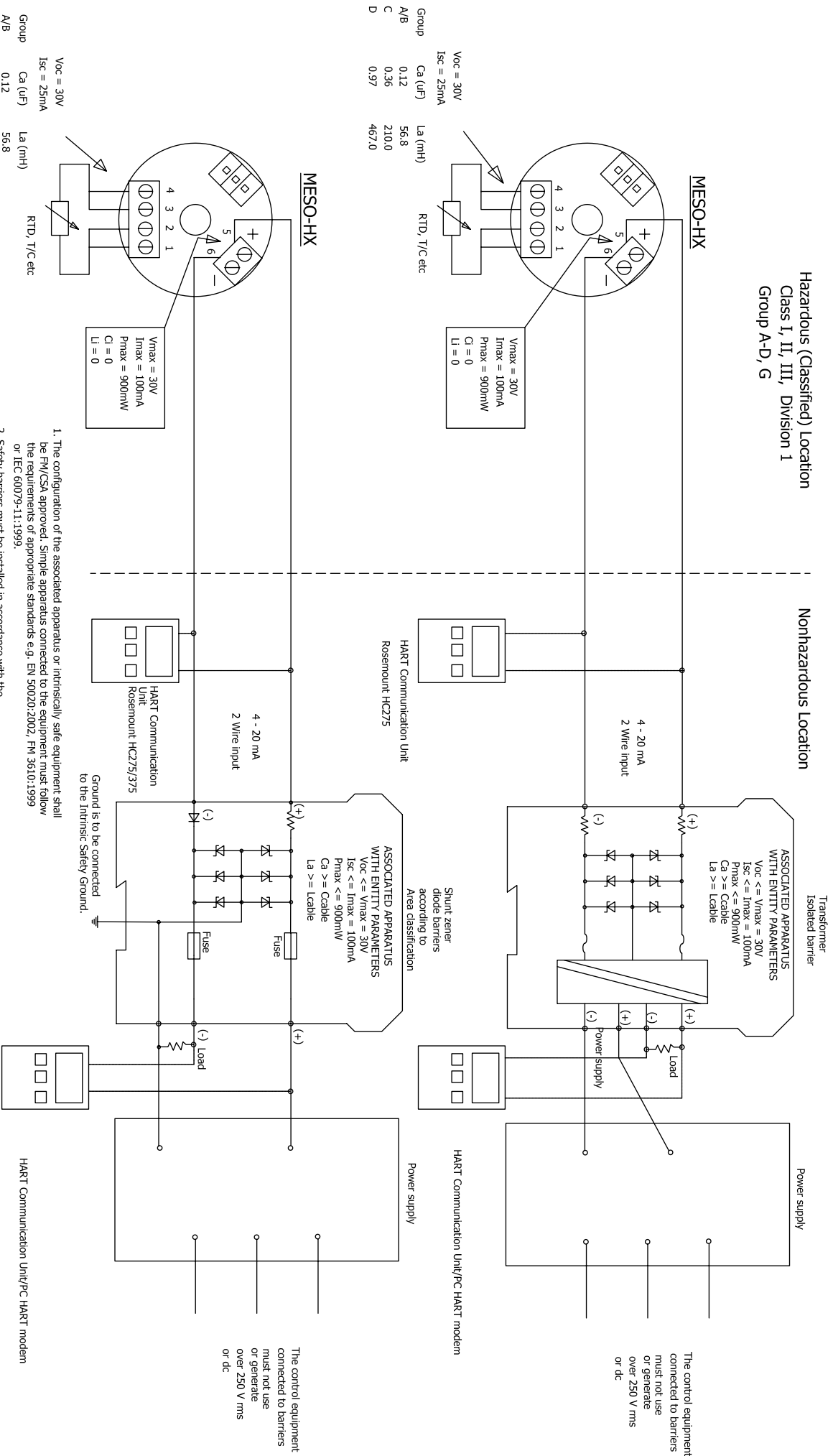
The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
1897714	2007/05/08	Update to Cover Minor Report Corrections.
1863602	2007/03/12	Transfer of Report 1822199 from MC 162767 KHRONE to INOR Process AB (IFE Required)

Hazardous (Classified) Location
Class I, II, III, Division 1
Group A-D, G

Nonhazardous Location



Group	$V_{oc} = 30V$
A/B	$I_{sc} = 25mA$
C	C_a (uF)
D	L_a (mH)

Group	$V_{max} = 30V$
A/B	$I_{max} = 100mA$
C	$P_{max} = 900mW$
D	$C_i = 0$
	$L_i = 0$

Group	$V_{oc} = 30V$
A/B	$I_{sc} = 25mA$
C	C_a (uF)
D	L_a (mH)

Group	$V_{oc} = 30V$
A/B	$I_{sc} = 25mA$
C	C_a (uF)
D	L_a (mH)

Group	$V_{oc} = 30V$
A/B	$I_{sc} = 25mA$
C	C_a (uF)
D	L_a (mH)

Group	$V_{oc} = 30V$
A/B	$I_{sc} = 25mA$
C	C_a (uF)
D	L_a (mH)

Group	$V_{oc} = 30V$
A/B	$I_{sc} = 25mA$
C	C_a (uF)
D	L_a (mH)

Group	$V_{oc} = 30V$
A/B	$I_{sc} = 25mA$
C	C_a (uF)
D	L_a (mH)

Group	$V_{oc} = 30V$
A/B	$I_{sc} = 25mA$
C	C_a (uF)
D	L_a (mH)

Group	$V_{oc} = 30V$
A/B	$I_{sc} = 25mA$
C	C_a (uF)
D	L_a (mH)

Group	$V_{oc} = 30V$
A/B	$I_{sc} = 25mA$
C	C_a (uF)
D	L_a (mH)

1. The configuration of the associated apparatus or intrinsically safe equipment shall be FM/CSA approved. Simple apparatus connected to the equipment must follow the requirements of appropriate standards e.g. EN 50020:2002, FM 36.10.1999 or IEC 60079-11:1999.
2. Safety barriers must be installed in accordance with the manufacturers instructions.
3. Installation must be in accordance with the National Electrical Code (NFPA 70, Article 504), Canadian Electrical Code (CEC) Section 18 and ANSI/ISA-812.6.
4. If the cable parameters are unknown, the following values shall be used:
Capacitance = 60 pF/feet (200 pF/m)
Inductance = 0.20 uH/feet (0.66 uH/m)
5. If the safety barrier requires an earth connection then the resistance between the terminal on the safety barrier and the earth ground shall be less than 1 ohm.
6. Do not connect any communication equipment unless area is known to be non-hazardous.
7. In order to use Rosemount HC275 in Hazardous location, consult Rosemount Control Drawing No 00275-0081, revD

No revisions to drawing without prior FM/CSA approval.

Rev E	060824	CSA added.	GP
Rev D	050928	Standards in note 1 edited.	GP
Rev C	990301	Edit HART Unit connection.	GP
Rev B	981125	The text is edited.	GP
Rev A	980217	Note 7 added etc.	GP
Revision	Date	Comment	Approved by

Detno.	Quantity	Description	Material	Drawing no.	Article no.
		INTRINSIC SAFETY CONTROL DRAWING MESO-HX TEMPERATURE TRANSMITTER			General reference SS-ISO-2768-1 m General surface roughness for Ra 3.2 Projection:
File	mek7967e	Date: 980121	Scale: GP	No. of sheets: 1	Sheet: 1
		Designed by: LB	Approved by: GP	Drawing number: 3-7967	Rev: E