



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:

MESO-HX P/N 70MEHX1001. Temperature Transmitter.

IS / I,II,III / 1 / ABCDG / T4 Ta = 80°C - 3-7967; Entity;

AIS / I,II,III / ABCDG - 3-7967; Entity

Entity Parameters:

Input Terminals (PL5 and PL6):

$V_{Max} = 30 \text{ V}$, $I_{Max} = 100 \text{ mA}$, $P_{Max} = 900 \text{ mW}$, $C_i = 0 \text{ } \mu\text{F}$, $L_i = 0 \text{ mH}$.

Output Terminals (PL1, PL2, PL3, and PL4):

$V_t = 30 \text{ V}$, $I_t = 25 \text{ mA}$, $C_a = 0.12 \text{ } \mu\text{F}$, $L_a = 56.8 \text{ mH}$.

Equipment Ratings:

Intrinsically Safe for Class I, II, III Division 1, Groups A, B, C, D, and G with intrinsically safe connections to Class I, II, III Division 1, Groups A, B, C, D, and G hazardous (classified) locations in accordance with drawing 3-7967.

FM Approved for:

INOR Process AB
Se-200 39 Malmo, Sweden



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

Class 3600	2011
Class 3610	2010
Class 3810	2005


Original Project ID: 6D9A4.AX

Approval Granted: November 25, 1998

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
030318	July 3, 2003		
030319	July 3, 2003		
031021	October 30, 2003		
040930	November 16, 2004		
050607	June 22, 2005		
050929	October 21, 2005		
3048110	August 25, 2014		
140827	September 4, 2014		

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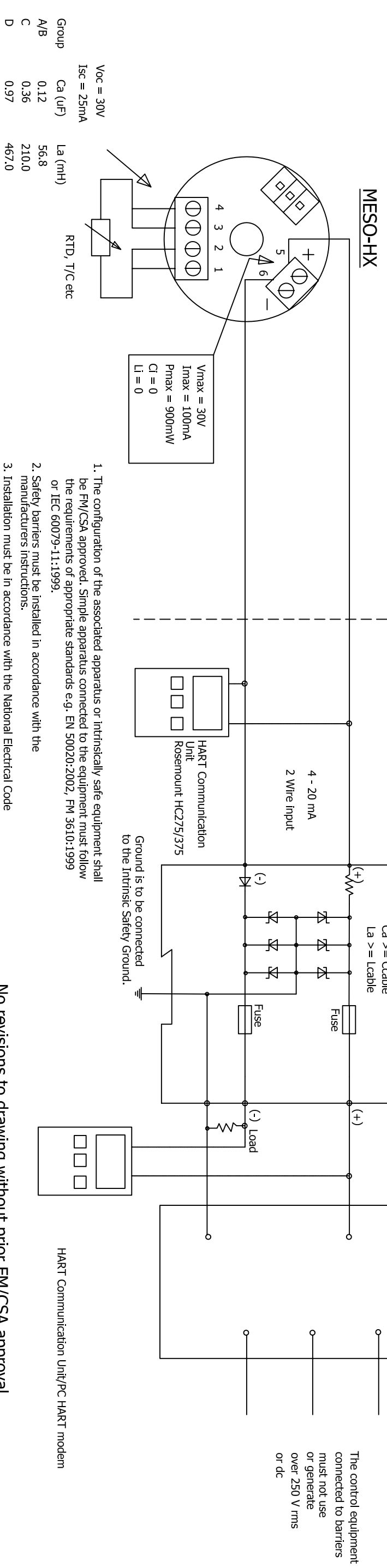
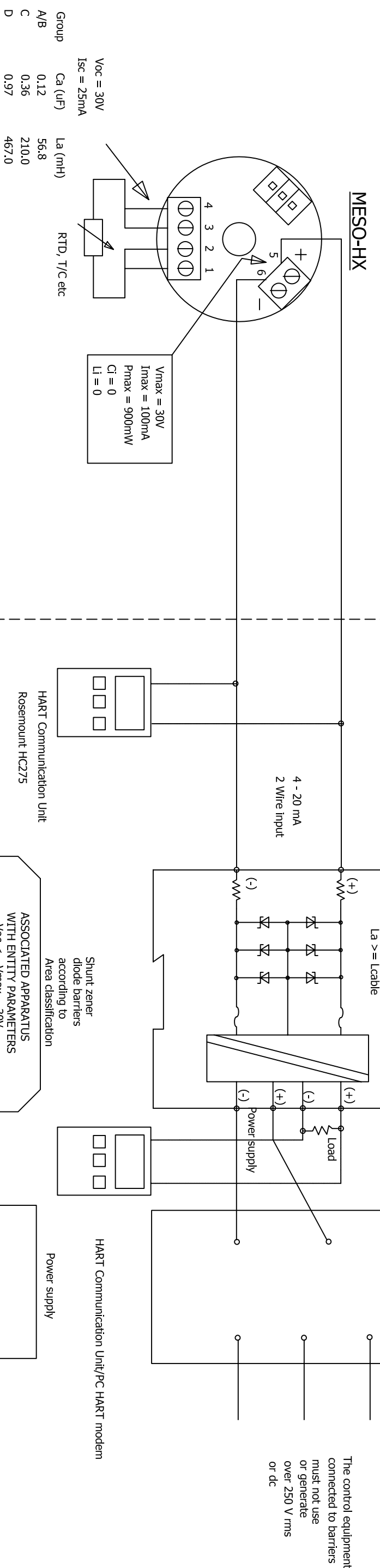

 J.E. Marquedant
 Manager, Electrical Systems

11 September 2014
 Date

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

Nonhazardous Location



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 3610:1999 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 (NEC) Section 18 and ANSIR/ISA-RP12.6. (NFPA 70, Article 504), Canadian Electrical Code (CEC) Section 18 and ANSIR/ISA-RP12.6.
4. If the cable parameters are unknown, the following values shall be used:
Capacitance = 60 pF/feet (200 pF/m)
Inductance = 0.20 µH/feet (0.66 µH/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.

Revision	Date	Comment	Approved by:
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

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