



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. 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 & PL6):

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

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

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

Equipment Ratings:

Intrinsically Safe, with entity parameters, for use in Class I, II & III, Division 1, Groups A, B, C, D & G, in accordance with manufacturer's Control Drawing No. 3-7967, with Intrinsically Safe Connections to Class I, II & III, Division 1, Groups A, B, C, D & G Hazardous (Classified) indoor Locations.

Approved for:

Inor Process AB
P.O. Box 9125
S-200 39 Malmö, Sweden

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

Class 3600	1998
Class 3610	1989
Class 3810	1989
Including Supplement #1	1995


Original Project ID: 6D9A4.AX

FM Approval Granted: November 25, 1998

Subsequent Revision Reports / Date FM 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	10/21/05		

FM Global Technologies LLC



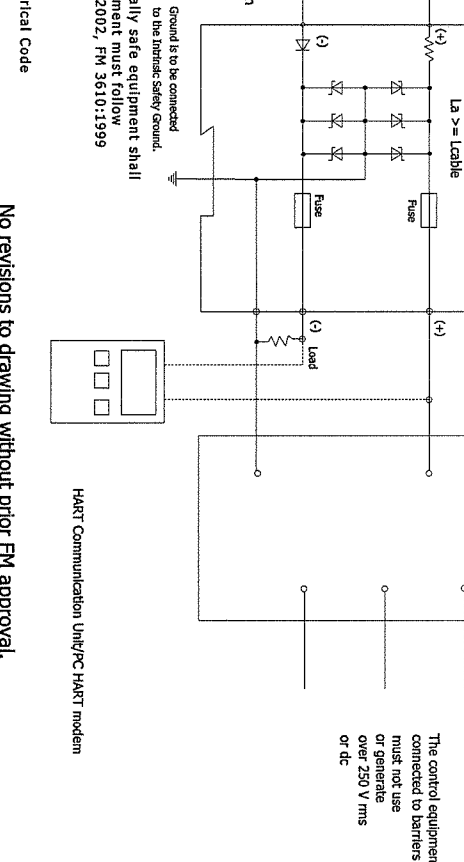
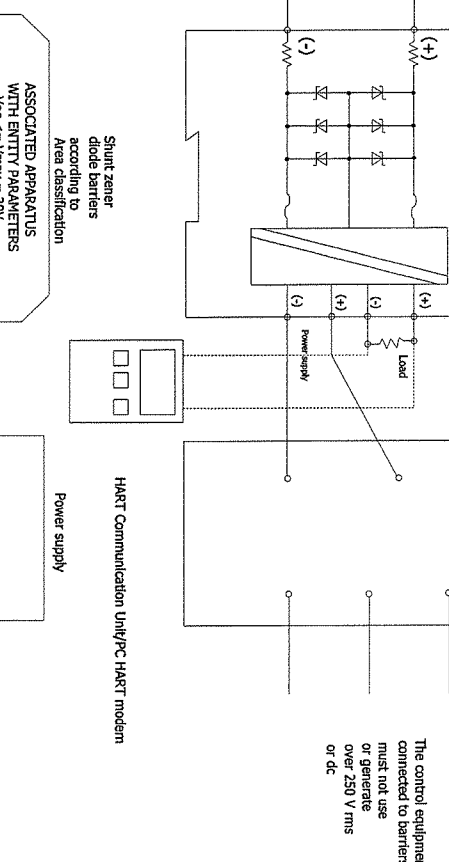
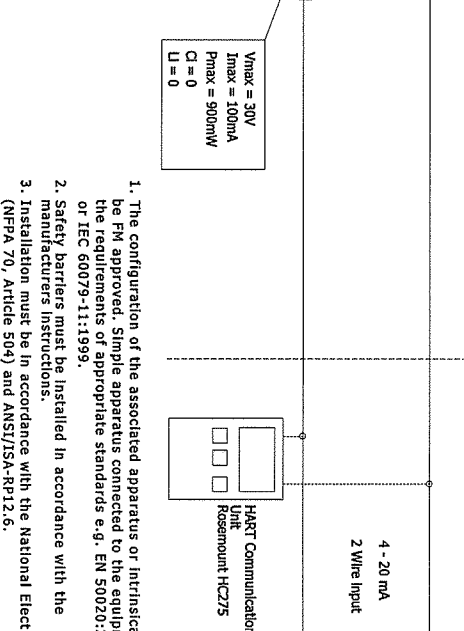
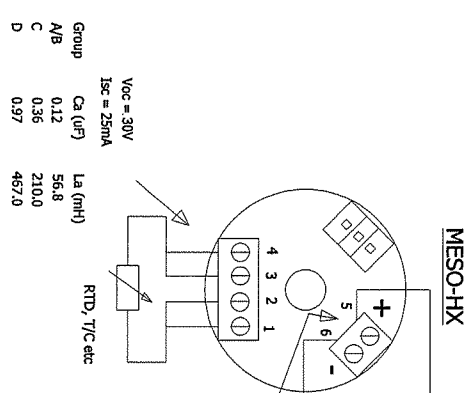
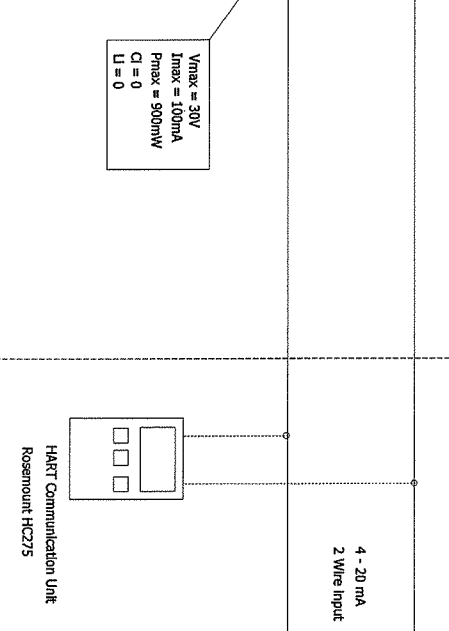
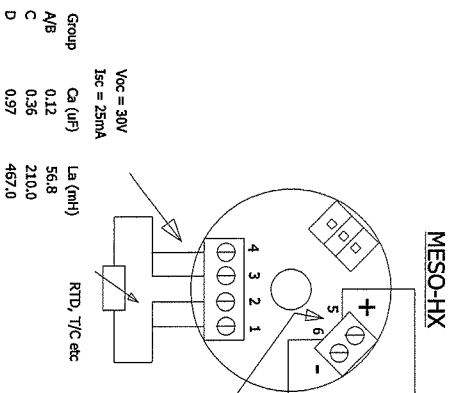
 George A. Smith
 Assistant Vice President
 FM Approvals

10/21/05

 Date

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 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 (NFPA 70, Article 504) and ANSI/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 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 approval.

REV	NO	DATE	COMMENTS	GP	SIGN
REV D	050928		Standards in note 1 added. Changed font.	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					

DET. NO	NUMB	NAME	MATERIAL	QTY/DRW. NO	ITEM NO
INOR SWEDEN					
INTRINSIC SAFETY CONTROL DRAWING					
MESO-HX TEMPERATURE TRANSMITTER					
CAD. NO	DRW. NO	DATE	SCALE	SIGN	DRW. NO
mek7967d	DRW	980121	LSB	GP	3-7967