

FACTORY MUTUAL



Factory Mutual Research Corporation
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

APAQ-HabX, Temperature Transmitter

Where:

- a = R - Describing resistance / Pt100 input
- C - Describing mV / T/C input
- b = F - Describing low (flatpack) housing
- Blank - Describing High housing

Equipment Ratings: Intrinsically safe for Class I, Division 1, Groups A, B, C, and D and with intrinsically safe connections to Class I, Division 1, Groups A, B, C, and D hazardous indoor locations in accordance with INOR PROCESS AB Drawing Number 3-7892

Manufactured by: INOR PROCESS AB
BOX 9125
S-200, 39 MALMÖ, SWEDEN


This certifies that the equipment described has been found to comply with the following Factory Mutual Research Corporation Approval Standards:

- Approval Standard Class No. 3600 - 1989
- Approval Standard Class No. 3610 - 1988
- Approval Standard Class No. 3810 - 1989

Approval Job Identification: 6D9A3.AX Report Granted: May 4, 1999

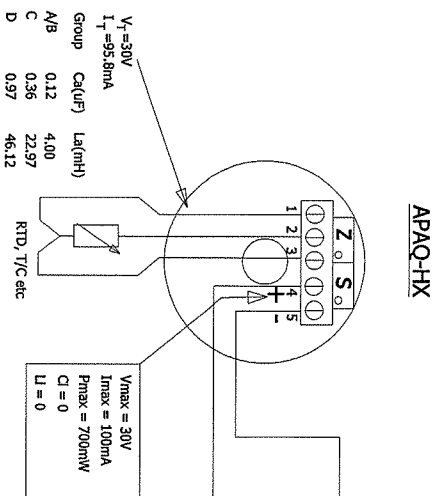
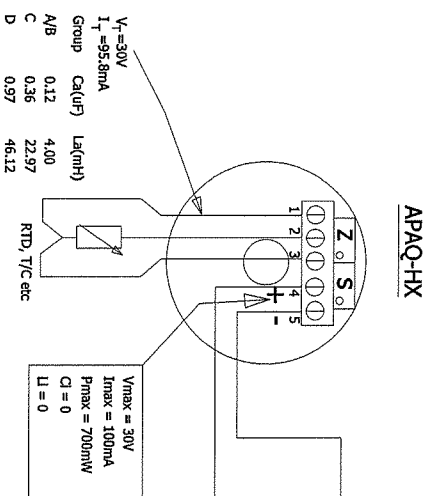
Subsequent Revision Reports / Date Approval Amended: NONE

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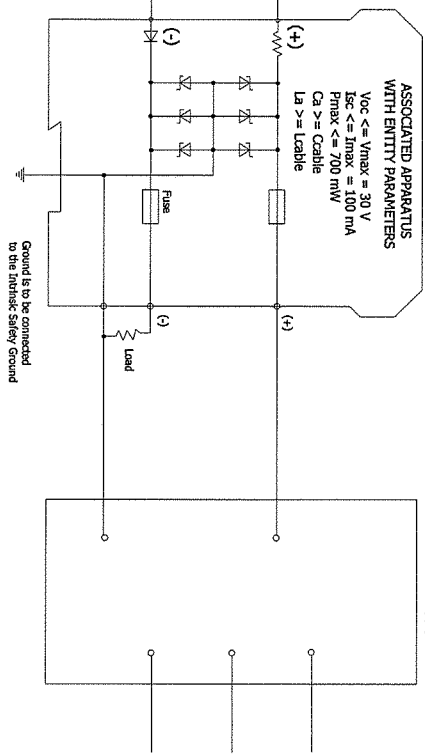
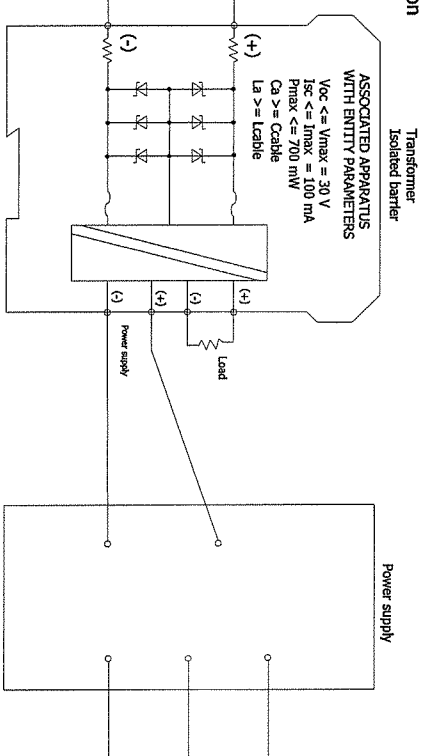

F. J. McGowan
Manager, Instrumentation
Approvals Division

May 11, 1999
Date

Hazardous (Classified) Location
Class 1, Division 1
Group A, B, C, and D



Nonhazardous Location



The control equipment connected to barriers must not use or generate over 250V rms or dc

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No revisions to drawing without prior FM approval.

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 5610:1999 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-8P12.6.
4. If the cable parameters are unknown, the following values shall be used:
 $Capacitance = 60 pF/feet (200 pF/m)$
 $Inductance = 0.20 \mu H/feet (0.66 \mu H/m)$
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.

REVISION	DATE	COMMENTS	SIGN
Rev D	050928	Standards in note 1 added. Changed font.	GP
Rev C	990503	Text is edited	GP
Rev B	970623	Text is removed	GP
Rev A	970602	Revision of the text etc.	GP

DEF. NO	NUMB	NAME	MATERIAL	DNW/DNW. NO	ITEM NO
		INTRINSIC SAFETY CONTROL DRAWING			
		APAQ-HX TEMPERATURE TRANSMITTER			

CAD NO	mek7892d	DRWN	LSB	SCALE	DNW NO
					3-7892