

# APPROVAL REPORT

**ECT SIGNAL ISOLATOR/CONVERTER  
RIY PROGRAMMABLE, ISOLATED RTD TRANSMITTER  
TIY PROGRAMMABLE, ISOLATED THERMOCOUPLE  
TRANSMITTER  
SIX 2-WIRE SIGNAL ISOLATOR CONVERTER  
SPT SITE PROGRAMMABLE TRANSMITTER  
SPA SITE PROGRAMMABLE ALARM  
SCX SIGNAL CURRENT ISOLATOR  
FOR USE IN  
HAZARDOUS (CLASSIFIED) LOCATIONS**

**Prepared For:**

**MOORE INDUSTRIES  
16650 SCHOENBORN STREET  
NORTH HILLS, CA 91343-6196**

**J.I. 2D1A5.AX  
(3611)  
February 2, 1998**

**FACTORY MUTUAL**



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**FEBRUARY 2, 1998**

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**FROM**

**MOORE INDUSTRIES  
16650 SCHOENBORN STREET  
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**I INTRODUCTION**

1.1 Moore Industries requested Approval of the apparatus listed in Section 1.2 to be in compliance with applicable requirements of the following standards:

<b><u>TITLE</u></b>	<b><u>CLASS NO.</u></b>	<b><u>ISSUE DATE</u></b>
Electrical Equipment for Use in Hazardous (Classified) Locations	3600	March, 1989
Electrical Equipment for Use in Class I, Division 2 Class II, Division 2 and Class III, Division 1 and 2 Hazardous Locations	3611	April, 1986

<u>TITLE</u>	<u>CLASS NO.</u>	<u>ISSUE DATE</u>
Electrical and Electronic Test, Measuring, and Process Control Equipment	3810	March, 1989

1.2 The following equipment was evaluated as nonincendive for Class I, Division 2, Group A, B, C, and D hazardous locations and will appear in the Electrical Equipment Approval Guide as follows:

**NI/1/2/ABCD**

**ECT Signal Isolator Converter. Model ECTabcde**

a = Input: 4-20MA, 4-20MATX, 1-5V, 0-10V, 0-1AAC, 0-2AAC, 0-3ACC, 0-4AAC, 0-5AAC, 0-150AC, 0-250AC, 0-1V, 0-5V, 0-50MV, 0-100MV, 0-200MV, 0-500MV, 10-50MA, 4-12MA, 0-20MA, 2X4-20MA, 2X0-10V, 2X1-5V, 0-2V, 0-1MA, 0-10MA, -10MATO+10MA  
b = Output: 4-20MA, 10-50MA, 1-5V, 0-10V, 2X4-20MA, 2X0-10V, 2X1-5V  
c = Power: 12-42DC, 24-42DC, 117AC, 230AC, 24DC, 4.5VLP, 5.5VLP, 8.5VLP  
d = Options: -EM, -TX  
e = Housing: ECD, WTD, WTDP, TCED

**RIY Programmable, Isolated RTD Transmitter. Model RIYabcde**

a = Input : R0, R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15  
b = Output: 4-20MA  
c = Power: 12-42DC, 12-30DC  
d = Options: -CE, -DD, -ISA, -ISC, -ISE, -ISF, -ND, -NE  
e = Housing: (DIN), (DN0), (FL), (FLD), (HP), (HPDY), (OTH), (TW), (VDN), (WTH), (2HG)(F2HG)(S2HG), (2HS)(F2HS)(S2HS), (2LG)(F2LG)(S2LG), (2LS)(F2LS)(S2LS), (3HG)(F3HG)(S3HG), (3HS)(F3HS)(S3HS), (3LG)(F3LG)(S3LG), (3LS)(F3LS)(S3LS)

**TIY Programmable, Isolated Thermocouple Transmitter. Model TIYabcde**

a = Input: J1, J2, K1, K2, E1, E2, E3, T1, T2, R1, S1, N1, N2  
b = Output: 4-20MA  
c = Power: 12-42DC, 12-30DC  
d = Options: -CE, -CSA, -DD, -ISA, -ISC, -ISE, -ISF, -ND, -NE, -NL, -SP1, -SP2, -STC

e = Housing: (DIN), (FL), (FLD), (HP), (HPDY), (OTH), (TW), (VDN), (WTH),  
 (2HG)(F2HG)(S2HG), (2HS)(F2HS)(FM2HS)(S2HS),  
 (2LG)(F2LG)(FM2LG)(S2LG), (2LS)(F2LS)(FM2LS)(S2LS),  
 (3HG)(F3HG)(FM3HG)(S3HG), (3HS)(F3HS)(FM3HS)(S3HS),  
 (3LG)(F3LG)(FM3LG)(S3LG), (3LS)(F3LS)(FM3LS)(S3LS)

**SIX 2-Wire Signal Isolator/Converter. Model SIXabcde**

a = Input: 0-1MA, 0-20MA, 4-20MA, 10-50MA, -1TO+1MA, -10VTO+10V, 1-5V,  
 .2-1V, 0-1V, 0-5V, 0-10V, 0-30V  
 b = Output: 4-20MA, 10-50MA  
 c = Power: 12-42DC  
 d = Options: -ATL, -BI, -CE, -RF, -TROP  
 e = Housings: (DIN), (DNC), (TCED)

**SPT Site Programmable, Isolated, Temperature Transmitter. Model SPTabcde**

a = Input: TPRG  
 b = Output: 4-20MA, 1-5V, PRG, 0-20MA, 0-5V, 0-10V  
 c = Power: U  
 d = Options: None  
 e = Housing: (DIN), (TCED), (EXULD), (EXTULD), (EXXULD), (FLD)

**SPA Site Programmable, Isolated, Alarm. Model SPAabcde**

a = Input: HLPRG, TPRG  
 b = Output: 1PRG, 2PRG, 3PRG, 2H1L1  
 c = Power: U, 117AC, 230AC  
 d = Options: -AO, -CE, -EUXXXX, -HS  
 e = Housing: (DIN), (EXULD), (EXTULD), (EXXULD), (FLD), (TCED)

**SCX Signal Current Isolator. Model SCX/a/b/c/d/e**

a = Input: 4-20MA, 10-50MA  
 b = Output: 4-20MA, 10-50MA  
 c = Power: 5.5VLP, 8.5VLP, 4.5VLP  
 d = Options: -CE, -DS, -NA, -RF, -RTB, -TROP, -WTD, -WTDP  
 e = Housing: (DN), (DIN), (ECD), (FL), (FLD), (HP), (HPD), (OTH), (TW), (WTD),  
 (WTDP), (WTH), (2HG)(F2HG)(S2HG), (2HS)(F2HS)(FM2HS)(S2HS),  
 (2LG)(F2LG)(FM2LG)(S2LG), (2LS)(F2LS)(FM2LS)(S2LS),  
 (3HG)(F3HG)(FM3HG)(S3HG), (3HS)(F3HS)(FM3HS)(S3HS),  
 (3LG)(F3LG)(FM3LG)(S3LG), (3LS)(F3LS)(FM3LS)(S3LS)