



DO NOT SCALE DRAWING

TOLERANCES (UNLESS NOTED)
 DECIMALS = ±inch/mm
 .X = ±.1 /2.54
 .XX = ±.03 /0.76
 .XXX = ±.010/0.25
 HOLES: ±.003-.002/+.08-.05
 ANGLES: = ± 30°

DRAWN	Gus H. Elias	09/00
CHECKED	W. Ho	02/03
ENGINEER	Gus H. Elias	09/00
SCALE	NONE	

CATEGORY
CONTROL DRAWING

TITLE
**Field Installation Diagram:
 TRX, TRX-R & T2X [HPP]
 Non-Isolated PC-Prog. Temp. Xmitters.
 Intrinsically Safe System
 For Hazardous 'Classified' Locations.**

DRAWING NUMBER
100-100-38

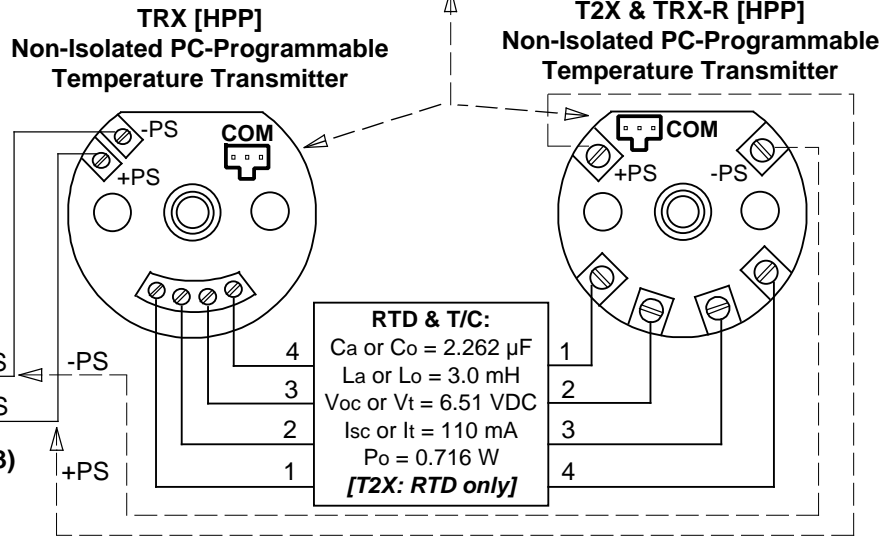
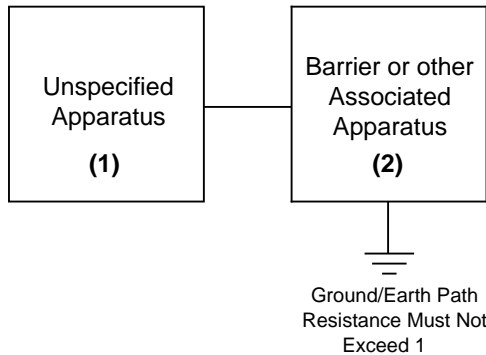
REVISED BY	DATE	BY	APPROVAL
ECO 13588	G.E.	02/03	CB

NOTICE RE PROPRIETARY INFORMATION: This drawing and the information contained herein are the proprietary property of Moore Industries-International, Inc. (MII) and should not be reproduced or disclosed to any third party without the written consent of an authorized officer of MII.

(Caution: The 'COM' Port Must Not Be Used In Hazardous 'Classified' Locations.)

CERTIFIED PRODUCT
 This is a controlled 'Related' or 'Schedule' drawing. No modifications are permitted without the notification and final approval of the Certification Engineer (related dwgs.) or the Certifying Agency (schedule dwgs.).

Non-Hazardous Safe Area



Entity Parameters (Power/Loop, +PS & -PS):

V_{max} or U_i	= 30 VDC
I_{max} or I_i	= 110 mA
P_{max} or P_i	= 0.825 W
C_i	= 4.7 nF
L_i	= 0 µH
C_a or C_o	$C_i + C_{cable}$
L_a or L_o	$L_i + L_{cable}$
V_{oc} or V_t	V_{oc} or V_t
V_{oc} or V_t	6.2 VDC
I_{sc} or I_t	I_{sc} or I_t
P_{max}	P_o

Input device must be 'Agency' approved per application area (CSA, EECs, FM, IISep, LCIE, SIRA, SAA, TUV, etc...).

Hazardous (Classified) Locations - FM (US NEC 500):
 Intrinsically Safe: Class I,II,III; Div. 1; Groups A-G.
 Non-Incendive: Class I, Div. 2, Groups A-D.
 Class II, Div. 2, Groups F & G and Class III, Div. 2.
 US NEC 505 (T2X & TRX-R only): Class I, Zone 0, AEx ia IIC

Hazardous (Classified) Locations/Areas: CSA International
 Intrinsically Safe: Class I, Div. 1, Groups A-D.
 Non-Incendive: Class I, Div. 2, Groups A-D.

T. Code: **T6 @ 60°C** Maximum Operating Ambient.
 Temperature Range: **-40°C T_{amb.} +60°C**

KEMA/CENELEC I.S. (TRX only): EEx ia IIC T4/T5
LCIE/ATEX I.S. (T2X/TRX-R): Ex II 1G EEx ia IIC T6

Notes:

- Apparatus which is unspecified except that it **must not** be supplied from, or contain under normal or abnormal conditions a source of potential with respect to earth in excess of 250 VRMS or 250 VDC which is considered to be the Safe Area's maximum voltage.
- The Barrier or other Associated Apparatus **must** be approved by the "specific" (CSA/EECS/FM/LCIE/SAA/SIRA/TUV, etc...) certifying agency for I.S. connections in: "Class I-III, Division 1, Groups A-G" locations. The output voltage **6.2VDC (Voc, Vt or Vo) 30VDC** & the output current (**Isc, It or Io**) **must not** exceed **110 mA**. Also, it **must** be installed per the manufacturer's guidelines. *A Shunt Zener Barrier is NOT required for Non-Incendive (or Class I, Division 2 or Type N) installations.*
- The combined Capacitance and Inductance of the inter-connecting cables and the PC Prog. Transmitters **must not** exceed the values indicated on the Associated Apparatus.
- For FM applications, installation **must** be in accordance to 'ANSI-P12.6' (Installation of I.S. Systems for Hazardous 'Classified' Locations) and the National Electric Code 'ANSI/NFPA 70'. Also, a dust-tight conduit seal **must** be used when installed in Class II and Class III environments. For CSA applications, adhere to the 'Canadian Electric Code C22.1' most current publication on I.S. installation guidelines. For CENELEC/ATEX applications, adhere to 'EN 60079-14:1997' or any equivalent, most current and pertaining publication on I.S. installation guidelines.
- Warning:** Substitution of components may impair the Intrinsic Safety of the unit. **DO NOT** open the unit when either energized or if an explosive gas/dust atmosphere is present. Disconnect power before servicing. Also read, understand and adhere to the manufacturer's installation and operating procedures.
- The maximum power parameters of the COM port (to be used only in safe/non-hazardous areas) are: $V_{max} = 3.0$ VDC, $I_{max} = 300$ µA, $P_{max} = 240$ µW.