



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	02/01
ENGINEER	Gus H. Elias	09/00
SCALE	NONE	

CONTROL DRAWING

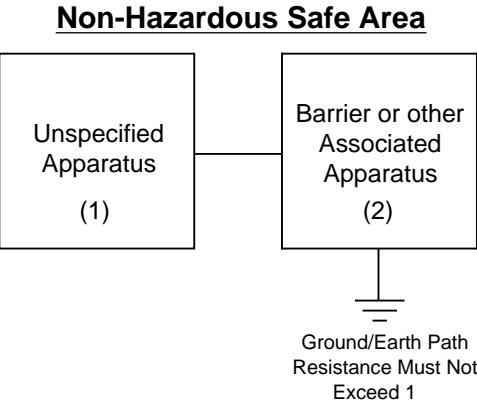
TITLE
Field Installation Diagram:
THZ [HPP]
Intrinsically Safe System
For Hazardous 'Classified' Locations.

DRAWING NUMBER
100-100-57

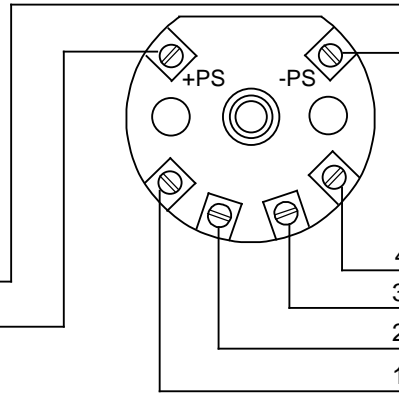
REVISION D	APPROVAL CB
REVISOR ECO 13262	DATE G.E. 02/01

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



PC-Programmable Smart HART Temperature Transmitter



RTD, T/C, mV:
 Ca or Co = 2.96 μF
 La or Lo = 2.9 mH
 Voc or Vt = 6.51 VDC
 Isc or It = 110 mA
 Po = 0.825 W

Entity Parameters (Power/Loop, +PS & -PS):
 Vmax or Ui = 30 VDC
 Imax or li = 110 mA
 Pmax or Pi = 0.825 W
 Ci = 43 nF
 Li = 0 μH
 Lo/Ro = 43.1 μH/

Ca or Co	Ci + Ccable
La or Lo	Li + Lcable
Vmax or Ui	Voc or Vt
Imax or li	Isc or It

Input device must be 'Agency' approved per application area (CSA, EECS, FM, ISSEP, 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.

T. Code: T6 @ 60°C Maximum Operating Ambient.
Temperature Range: -40°C Tamb. +60°C

Hazardous 'Classified' Locations/Areas:
CSA International
Intrinsically Safe: Class I, Div. 1; Groups A-D.
Class I, Div. 2, Groups A-D.

CENELEC/ATEX
Intrinsically Safe: Ex II 2G EEx ib IIC T6

Notes:

- (1) 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.
- (2) 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 (**Voc, Vt or Vo**) **must not** exceed **30 VDC** & 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.*
- (3) 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.
- 4- 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.
- 5- **Warning:** Substitution of components may impair the Intrinsic Safety and/or Non-Incendivity of the unit. **DO NOT** open the unit when either energized or when an explosive gas/dust atmosphere is present. Disconnect power before servicing. Also read, understand and adhere to the manufacturer's installation and operating procedures.