

DO NOT SCALE DRAWING

TOLERANCES (UNLESS NOTED)	DRAWN	Gus H. Elias	09/00
DECIMALS = 1/1000th/mm	CHECKED	C.B.	08/04
X ±.1	ENGINEER	Gus H. Elias	09/00
XX ±.03	SCALE	NONE	
XXX ±.005			
HOLEES ±.005/±.13			
ANGLES ±.30°			

CATEGORY CONTROL DRAWING

**Field Installation Diagram:
TRY & TRY-R**
Isolated PC- Prog. Temp. Xmltters.
Intrinsically Safe System
For Hazardous "Classified" Locations

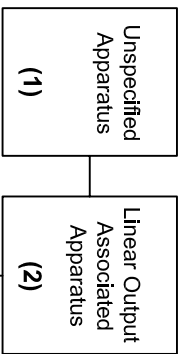
DRAWING NUMBER 100-100-49

REVISED BY	DATE	BY	APPROVAL
ECO 15730	12/09	CW	CB

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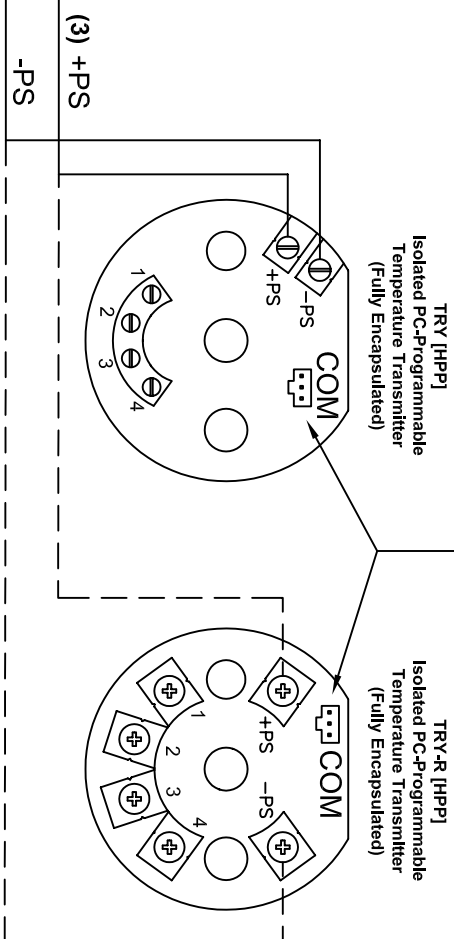
Certified Product
This is a controlled 'Revised' or 'Schedule' drawing. No modifications are permitted without the notification and final approval of the Certifying Agency (related dveys.) or the Certifying Agency (schedule dveys.)

Un-Classified (Non-Hazardous/Safe) Area



Ground/Earth Path Resistance
Must Not Exceed 1 Ω
(Barrier must be Agency approved)

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



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 (TRY-R only); Class I, Zone 0, AEX Ia IIC

KEMA/CENELEC I.S. (TRY only): EEx Ia IIC T4/T5
LCI/EATEX I.S. (TRY-R): II 2G EEx Ia IIC T6

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

Input device must be Agency approved per application area (CSA, FM, ISSep, KEMA, LCI, TestSafe, SIRa, TVV, etc.)

ANZEx Scheme [TRY-R only]

Input Parameters (+PS & -PS)

Ui = 30 V
Ii = 110 mA
Pi = 0.825 W
Ci = 5.2 nF
Li = 0 mH

RTD, T/C, mV, Ω (1, 2, 3, 4)

Uo = 6.51V
Io = 205 mA
Po = 0.675 W
Lo = 0.410 mH
Co = 5.1 μF

ATEX/FM/CSA Scheme

Entry Parameters (Power/Loop, +PS & -PS)

Vmax or Ui = 30 VDC
Imax or Ii = 110 mA
Pmax or Pi = 0.825 W
Ci = 10.34 nF
Li = 0 μH
Ca or Co ≥ Ci + Ccable
La or Lo ≥ Li + Lcable
Vmax or Ui ≥ Voc or Vt
Imax or Ii ≥ Isc or It
Pi ≥ Po

RTD, T/C, mV, Ω (1, 2, 3, 4)

Ca or Co = 10 μF
La or Lo = 2.7 mH
Voc or Vt = 6.51 VDC
Isc or It = 110 mA
Po = 0.560 W

Notes:

(1) Associated 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 Areas maximum voltage.

(2) The Linear Output Associated Apparatus **must** be approved by the "specific" (CSA/ECS/FML/CI/SIRATUV, etc.) certifying agency for I.S. connections in "Class I-III, Division 1, Groups A-G" or "Zone 0" 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 and, the output power (Po) **must not** exceed 0.825W (P1). 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/ISA-RP12.06.01" (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 unit's Intrinsic Safety & suitability for Class I, Division 2 areas. **DO NOT** open or service 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.

6- The maximum power parameters of the COM port (to be used only in safe/non-hazardous areas) are: Vmax = 3.0 VDC, Imax = 300 μA, Pmax = 240 μW.