

Temperature range

without display, D10		with	with display, D10		
T4	-40 °C +85 °C	T4	-40 °C +85 °C		
T5	-40 °C +80 °C	T5	-40 °C +80 °C		
T6	-40 °C +70 °C	T6	-40 °C +70 °C		

NONINCENDIVE, FIELD WIRING

Class I / Div. 2 / Groups ABCD

Po = 24.7 mW

Sensor circuits (Terminals 3...7)

Uo or Voc or Vt = 7.6 V

Group A, B resp. IIC	Co or Ca = $10.4 \mu F$	Lo or La = 236 mH
Group C, D resp. IIB	Co or Ca = $160 \mu F$	Lo or La = 946 mH
Group C. D resp. IIA	Co or $Ca = 1000 \mu F$	Lo or La = 1.893 H

lo or lsc = 13 mA

Installation Notes T82



- CSA approved apparatus must be installed in accordance with manufacturer's instructions.
- Install per Canadian Electrical Code.
- Temperature Sensor assembly must be CSA approved for appropriate area classification.
- Use supply wires suitable for 5 °C above surroundings.
- Keep tight when circuits alive.
- Warning: Substitution of components may impair intrinsic safety or suitability for Class I, Division 2.

EXPLOSION PROOF DUST IGNITION PROOF

Class I / Div. 1 / Groups ABCD Class II, III / Div. 1 / Groups EFG

- All conduits must be assembled with a minimum of five full threads engagement.
- Seal all conduits within 18 inches of enclosure.
- In Class II use a dust tight seal.
- Warning: Do not disconnect equipment unless power has been switched off or the area is known to be nonhazardous.

NONINCENDIVE

Class I / Div. 2 / Groups ABCD

- Intrinsic safety barrier not required.
- Warning: Do not disconnect equipment unless power has been switched off or the area is known to be nonhazardous.
- Nonincendive field wiring installation:

The Nonincendive Field Wiring Circuit Concept allows interconnection of Nonincendive Field Wiring Apparatus with Associated Nonincendive Field Wiring Apparatus or Associated Intrinsically Safe Apparatus or Associated Apparatus not specifically examined in combination as a system using any of the wiring methods permitted for unclassified locations,

when $Voc \le Vmax$, $Ca \ge Ci + Ccable$, $La \ge Li + Lcable$.

Transmitter Nonincendive Field Wiring parameters are as follows: Ii = 0

Ui or Vmax ≤ 35 V dc Ci = 0 nF

li or Imax = see following note below

For these current controlled circuits, the parameter Imax is not required and need not to be aligned with parameter Isc and It of the Associated Nonincendive Field Wiring Apparatus or Associated Apparatus.

Functional ratings

These ratings do not supersede Hazardous Location values

Unom \leq 42 dc Inom \leq (4 to 20) mA

TITLE:		PART NUMBER:	DATE:		
T82 CSA Control Drawing XP, NI, DIP			11/0	11/05/2012	
This document is PROPRIETARY to	SIZE:	DRAWING NO:	REV:	SCALE:	
Pyromation, Inc.	Α	M008401	_	N/A	

