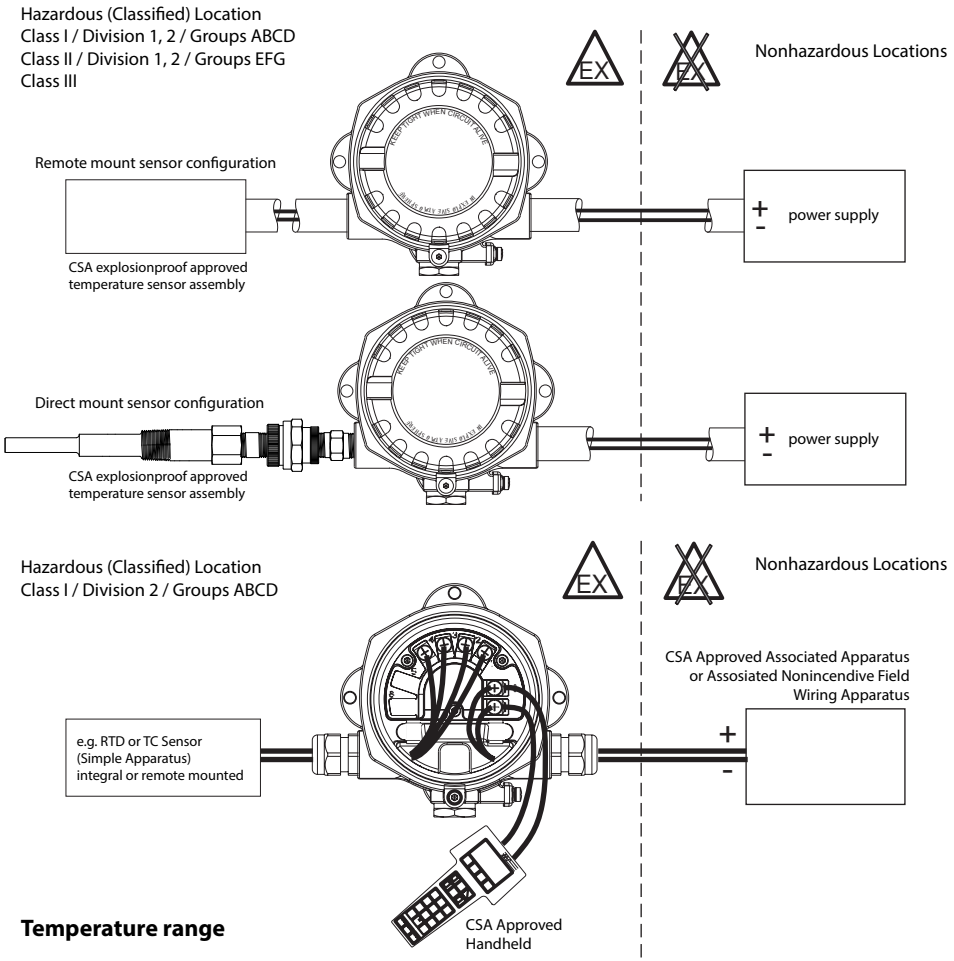

Temperature range

T4 -40 °C ... +85 °C
T5 -40 °C ... +70 °C
T6 -40 °C ... +55 °C

NONINCENDIVE, FIELD WIRING NI Class I / Div. 2 / Groups ABCD

Sensor circuits (Terminals 1…4)

Uo or Voc or Vt = 7.6 V	Io or Isc = 29.3 mA	Po = 55.6 mW
Group A, B resp. IIC	Co or Ca = 10.4 µF	Lo or La = 40 mH
Group C resp. IIB	Co or Ca = 160 µF	Lo or La = 150 mH
Group D resp. IIA	Co or Ca = 1000 µF	Lo or La = 300 mH

Installation Notes Series 642

EXPLOSION PROOF Class I / Div. 1 / Groups ABCD
DUST IGNITION PROOF Class II, III / Div. 1 / Groups EFG

- CSA certified apparatus must be installed in accordance with manufacturer's instructions.
- Installation must be in accordance with Canadian Electrical Code.
- All Conduits must be assembled with a minimum of five full threads engagement.
- Temperature Sensor assembly must be CSA approved for appropriate area classification.
- Use supply wires suitable for 5 °C above surroundings.
- Stating that only simple apparatus should be terminated to the sensor connection.
- Simple apparatus are components as defined by the CEC (1.2V, 0.1A, 0.25mW or 20µJ)
- Seal all conduits within 18 inches of enclosure.
- In Class II use a dust tight seal.
- A dust tight seal must be used for conduit entry when the field display is used in a Class II or Class III location.
- Keep tight when circuits alive.
- Supply circuit (Terminals + and -)
  U ≤ 40 V dc
  P = 3 W
- Warning: Substitution of components may impair suitability for Class I, Division 2.
- 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 is not required. Vmax ≤ 40 V dc.
- 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 ≤ Vmax, Ca ≥ Ci + Ccable, La ≥ Li + Lcable.
  Transmitter Nonincendive Field Wiring parameters are as follows:
  Ui or Vmax ≤ 40 V dc Ci = 5.3 nF Li = 0
  Ii 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 ≤ 40 dc Inom ≤ (4 to 20) mA

TITLE: **Series 642 CSA Control Drawing XP, NI, DIP**		PART NUMBER:	DATE: **11/05/2012**		pyromation inc. beyond measure
This document is PROPRIETARY to Pyromation, Inc.	SIZE: A	DRAWING NO: M007603	REV: A	SCALE: **N/A**	FORT WAYNE, INDIANA (260) 484-2580