

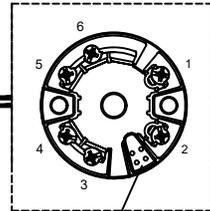
Hazardous (Classified) Location

No-Display (T71-00, T72-00) Class I / Division 1 / Groups ABCD
Class I, Zone 0 (EPL Ga), IIC
Ex ia IIC Ga; AEx ia IIC Ga

w/ or w/o Display (T71-00, T72-00) Class I / Division 2 / Groups ABCD
Class I, Zone 1 (EPL Gb), IIC
(T71-D10, T72-D10) Ex ia IIC Gb; AEx ia IIC Gb

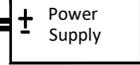
Nonhazardous Location

e.g. RTD or TC Sensor (Simple Apparatus) integral or remote mounted



Terminal for connecting to display D10
NOTE: Display D10 Not Allowed for Div 1, Zone 0, EPL Ga Applications

CSA approved Associated Apparatus or Associated Nonincendive Field Wiring Apparatus



INTRINSICALLY SAFE - SÉCURITÉ INTRINSÈQUE

see Instructions: Division 1, Class I, Groups A, B, C, D; Ex / AEx ia IIC Ga
Division 2, Class I, Groups A, B, C, D; Ex / AEx ia IIC Gb

CSA Approved Associated Apparatus must meet the following parameters:

- Uo ≤ Ui Io ≤ Ii Po ≤ Pi Ca ≥ Ci + Ccable La ≥ Li + Lcable
- Transmitter entity parameters are as follows:
- Ui or Vmax ≤ 30 V DC Ci = 0
- Ii or Imax ≤ 100 mA Li = 0
- Pi ≤ 800 mW

- Voc + Voc of Handheld device < Vmax, Isc + Isc of Handheld device < Imax,
- Po + Po of Handheld device < Pi, Ca > Ci + Ccable + Ci of Handheld device,
- La > Li + Lcable + Li of Handheld device, when Programming Handheld device is used.

- WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY.
- AVERTISSEMENT: LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SÉCURITÉ INTRINSÈQUE
- WARNING: POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS.
- AVERTISSEMENT: RISQUE POTENTIEL DE DÉCHARGES ELECTROSTATIQUES – VOIR CONSIGNES.
- WARNING: EXPLOSION HAZARD - DO NOT CONNECT OR DISCONNECT WHILE CIRCUITS ARE LIVE UNLESS AREA IS KNOWN TO BE NON-HAZARDOUS
- AVERTISSEMENT: RISQUE EXPLOSION- NE JAMAIS BRANCHEZ OU DECONNECTEZ QUAND LES CIRCUITS INTERNES SONT SOUS TENSION À MOINS QUE LA ZONE SOIT PAS À RISQUES.



CONDITIONS OF ACCEPTABILITY

- Due to the risk of discharge the non-metallic parts of the equipment and all of the non-metallic accessories have to be protected from electrostatic charging during installation and operation (e.g. only wipe with damp cloth and do not expose to high voltage fields).
- The equipment is for use under atmospheric conditions only, the permissible pressure range is 1.1 bar (80 to 110 kPa) and the permissible normal oxygen content is typically 21 % v/v.
- The end user shall ensure appropriate earthing of field housing / enclosure and all metallic accessories if used (wall or pipe mounting accessories for the field housing and the DIN rail clip for the head transmitter) upon installation.
- For the use as intrinsically safe equipment, and for Zone 0 (EPL Ga), Zone 1 (EPL Gb) and Class I, Division 1 applications, the head transmitter T71/T72 shall be installed completely inside an additional enclosure, providing a degree of protection of not less than IP20 according to CSA/UL 60079-0 and CSA/UL 60079-11. The ambient temperature within the end use enclosure shall not exceed the limits of the permissible ambient temperature range. Clearances, creepage distances and separations as defined in CSA/UL 60079-11 must be considered for the installation.
- If the head transmitter T71/T72 was used in a Zone 1 (EPL Gb), Zone 2 (EPL Gc) or Class I, Division 2 application it is not allowed to be used in Zone 0 (EPL Ga) or Class I, Division 1 applications in the future.
- When connecting the head transmitter T71/T72 with a certified circuit of category "ib" into an IIC or IIB hazardous area the ignition class changes to: Ex ib IIC or Ex ib IIB.
- The use of the display type D10 with the head transmitter T71/T72 by connecting display to the CDI interface of the head transmitter is only permitted for Zone 1 (EPL Gb), Zone 2 (EPL Gc) and Class I, Division 2 applications.
- The CDI interface is only allowed to be used for connecting the display type D10. Irrespective of inside or outside the hazardous area, no other circuits/equipment is allowed to be connected to the CDI interface.
- Final acceptance of this equipment when installed is subject to the jurisdiction of the local inspection authority.

Installation Notes T71, T72

- CSA approved apparatus must be installed in accordance with manufacturer's instructions.
 - Install per Canadian Electrical Code or National Electrical Code (NFPA 70).
 - Use supply wires suitable for 5°C above surroundings.
 - Stating that only simple apparatus should be terminated to the sensor connection.
- Simple apparatus is defined as a device that will neither generate nor store more than 1.2V, 0.1A, 0.25mW or 20µJ. Examples are Thermocouples or RTDs.

Equipment Rating (this does not supersede hazardous locations rating)

- Pollution degree 2
- Installation category: DC supplied
- Electrical supply 10 - 36V dc
- IP20
- Temperature -40°C up to +85°C

Temperature range

Division 1, EPL Ga - No Display:	Ta: -50 To +40/60/60°C	T6/T5/T4
Division 2, EPL Gb - with Display D10:	Ta: -40 To +55/70/85°C	T6/T5/T4
Division 2, EPL Gb - without Display D10:	Ta: -40 To +55/70/85°C	T6/T5/T4

Sensor circuits (Terminals 3...6)

Uo or Voc or Vt = 4.3 V Io or Isc = 4.8 mA Po = 5.2 mW
Group A, B resp. IIC Co or Ca = 100 µF Lo or La = 10 mH
Group C, D resp. IIB Co or Ca = 10 µF Lo or La = 1H
Group C, D resp. IIA Co or Ca = 10 µF Lo or La = 1H

Applicable requirements see CSA certificate 80139060

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