XT100C - XH100C - XP100C

Digital indicator

1. GENERAL WARNINGS

1.1 Please read before using this manual

- This manual is part of the product and shall be kept near the device for easy and quick reference.
- The instrument shall not be used for purposes different from those described hereunder.
- Check the application limits before proceeding.

1.2 Safety Precautions

- Check the supply voltage is correct before connecting the instrument.
- Do not expose to water or moisture: use the instrument only within the operating limits avoiding sudden temperature changes with high atmospheric humidity to prevent condense formation.
- Warning: disconnect all electrical connections before any kind of maintenance.
- The instrument shall never be opened.
- In case of failure or faulty operation send the instrument back to the retailer or to "SAE s.r.l." (see address) with a detailed description of the fault.
- Assure that the wires for probes and for power supply are separated and far enough from each other, without crossings and spirals.
- In case of applications in critical industrial environments, the use of mains filters (our mod. FT1) in parallel with inductive loads could be useful.

2. GENERAL DESCRIPTION

Model **XT100C**, 32 x 74 mm format, is a temperature indicator suitable for a wide range of applications.
It provides a PTC or Pt100 or a thermocouple (J, K, S) or current (4..20mA) voltage (0..1V or 0.10V) probe input.
Model **XP100C**, 32 x 74 mm format, is a pressure indicator.
It provides current (4..20mA) voltage (0..1V or 0.10V) probe input.
Model **XH100C**, 32 x 74 mm format, is a relative humidity indicator. It provides current (4..20mA) voltage (0..1V or 0.10V) probe input.

3. INSTALLATION AND MOUNTING

Instrument **XT100C, XP100C, XH100C** shall be mounted on panel, in a 29x71 mm hole, and fixed using the special bracket supplied.
The ambient temperature range allowed for correct operation is 0 - 60 °C (32÷140°F). Avoid places subject to strong vibrations, corrosive gases, excessive dirt or humidity. The same recommendations apply to probes. Let air circulate by the cooling holes.

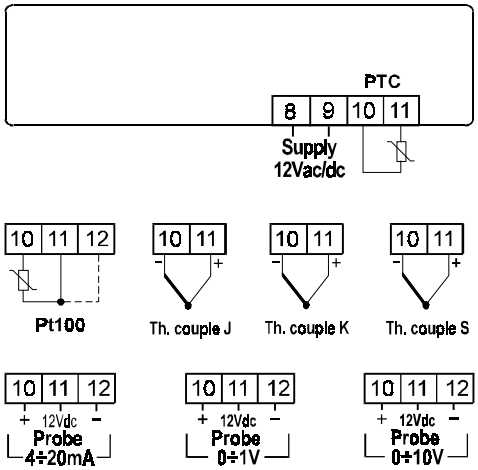
4. ELECTRICAL CONNECTIONS

The instrument is provided with screw terminal block to connect cables with a cross section up to 2,5 mm². Before connecting cables make sure the power supply complies with the instrument's requirements. Separate the probe cables from the power supply cables

5. TECHNICAL DATA

HOUSING: self extinguishing ABS.
CASE
Frontal 32x74 mm; depth 60mm;
MOUNTING
Panel mounting in a 71x29 mm panel cut-out
FRONTAL PROTECTION: IP65
CONNECTIONS
Screw terminal block ≤ 2,5 mm² wiring.
POWER SUPPLY:12Vac/dc, -10% +15%
POWER ABSORPTION: 3VA max.
DISPLAY: 3 digits, red LED, 14,2 mm high.
INPUTS: PTC or Pt100 or a themocouple (J, K, S) or current (4..20mA) voltage (0..1V or 0.10V) probe according to the order.
DATA STORING: on the non-volatile memory (EEPROM).
OPERATING TEMPERATURE: 0÷60 °C (32÷140°F).
RELATIVE HUMIDITY
20÷85% (no condensing)
STORAGE TEMPERATURE: -30..85 °C.
ACCURACY OF THE INDICATOR AT 25°C
better than 05% of full scale

6. CONNECTIONS



Dixell s.r.l. Z.I. Via dell'Industria, 27
32010 Pieve d'Alpago (BL) ITALY
tel. +39 - 0437 - 98 33 - fax +39 - 0437 - 98 93 13
E-mail: dixell@dixell.com - http://www.dixell.com