

XR100C**Digital Thermometer****GENERAL WARNINGS****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.

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 "dixell 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.

GENERAL DESCRIPTION

Model **XR100C**, 32 x 74 mm format, is a temperature indicator suitable for applications in the field of refrigeration. It provides a PTC or NTC probe input.

INSTALLATION AND MOUNTING

Instrument **XR100C** 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. 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.

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

Probe connection

The probe shall be mounted with the bulb upwards to prevent damages due to casual liquid infiltration. It is recommended to place the probe away from air streams to correctly measure the average room temperature.

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%
(optional 230, 110, 24 Vac, ± 10%, 50/60Hz)

POWER ABSORPTION: 3VA max.

DISPLAY: 3 digits, red LED, 14,2 mm high.

INPUTS: 1 PTC or NTC probe.

DATA STORING: on the non-volatile memory (EEPROM).

OPERATING TEMPERATURE: 0÷60 °C.

RELATIVE HUMIDITY

20÷85% (no condensing)

STORAGE TEMPERATURE: -30÷85 °C.

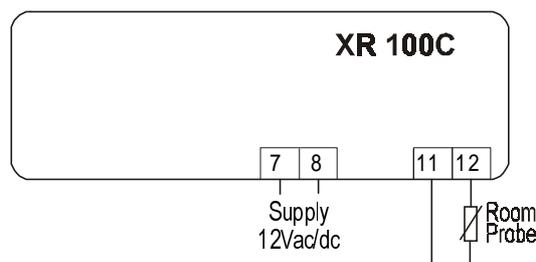
MEASURING RANGE

PTC probe: -50÷150°C (-58÷302°F)

NTC probe: -40÷110°C (-58÷230°F)

RESOLUTION: 0,1 °C or 1 °F (selectable).

ACCURACY (AMBIENT TEMP. 25°C): ±0,7 °C ±1 digit

CONNECTIONS

24Vac/dc: supply the instrument to the terminals 7 -8.

120Vac: supply the instrument to the terminals 7 -8.

230Vac: supply the instrument to the terminals 7 -8.

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