

MODEL CUB4RT - RTD TEMPERATURE INDICATOR



- PROGRAMMABLE TEMPERATURE OFFSET
- SELECTABLE °F or °C WITH 1 or 0.1 RESOLUTION
- °F OR °C DISPLAY ANNUNCIATORS
- CONFORMS TO ITS-90 TEMPERATURE SCALE
- 0.48 INCH (12.2 mm) HIGH DIGITS
- 5 DIGIT LCD, POSITIVE REFLECTIVE OR NEGATIVE TRANSMISSIVE WITH RED BACKLIGHT
- OPEN SENSOR INDICATION



EMC COMPLIANT



NEMA 4X / IP65



PARAMETER LOCKOUT



FRONT PANEL PROGRAMMABLE

Click Icon For User Bulletin

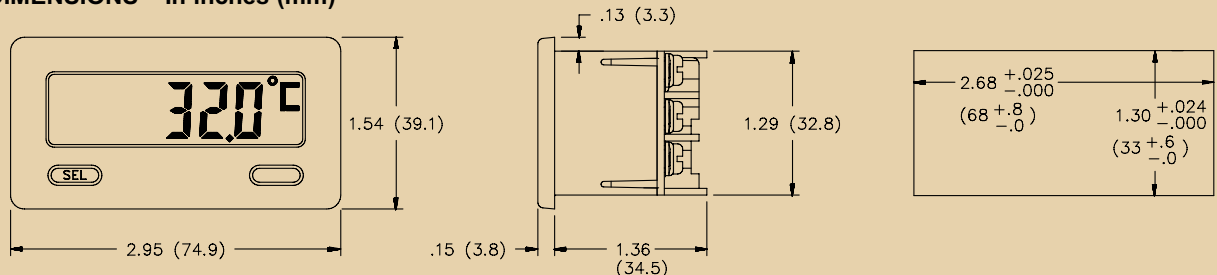


FAX/WEB
DOC # 05002

Product Features

The CUB4RT is a 9 to 26 VDC powered, microprocessor based temperature indicator with decimal display for use with Pt385, Pt392, Ni672, and Cu427 RTDs. Programmable features include RTD type, Fahrenheit or Celsius display, input filtering, input filter range, and a user offset. The 0.48", 5 digit LCD display provides annunciators for Fahrenheit or Celsius indication and is available with or without a backlight.

DIMENSIONS "In inches (mm)"



General Specifications

- DISPLAY:** Reflective LCD or Transmissive LCD with red backlight, 5 digit display 0.48" (12.2 mm) height, F or C annunciators.
- POWER:** 9 to 26 VDC @ 65 mA with backlight, 25 mA without backlight. 28 VDC max. Reverse polarity protected. Must use an RLC Model MLPS or a Class 2 or SELV rated power supply.
- ENVIRONMENTAL CONDITIONS:**
Operating Temperature Range: 0 to 50°C
Storage Temperature Range: -30 to 80°C
Operating and Storage Humidity: 85% max. relative humidity (non-condensing) from 0 to 50°C.
Altitude: Up to 2000 meters (6561 feet)
- CERTIFICATIONS AND COMPLIANCES:**
SAFETY
 EN 61010-1, IEC 1010-1
ELECTROMAGNETIC COMPATIBILITY
 Immunity to EN 50082-2
 Emissions to EN 50081-2
- CONNECTION:** Wire clamping screw terminals.
- CONSTRUCTION:** High impact plastic case with clear viewing window. (Panel gasket and mounting clips included.) Unit is rated for NEMA 4X/IP65 indoor use. Installation Category I, Pollution Degree 2.
- WEIGHT:** 3.3 oz. (93.5 g)

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Input Specifications

1. RANGE & ACCURACY:

Accuracy reflects ALL errors @12 VDC supply and 15 minute warm-up, except RTD probe errors and any unbalanced lead resistance effects.

Type	Jumper Position (See Bulletin)	Nominal	Range	Accuracy @ 23°C ±1LSD	Accuracy @ 0 to 50°C ±1LSD
Pt392	B	100 Ohm @ 0°C	-200 to 850	±0.7°C	±2.7°C
Pt385	B	100 Ohm @ 0°C	-200 to 850	±0.7°C	±2.7°C
Ni672	B	120 Ohm @ 0°C	-80 to 260	±0.7°C	±1.5°C
Cu427	A	9.035 Ohm @ 0°C	-100 to 260	±0.9°C	±1.7°C

2. INPUT:

Isolation: SIG+, SIG-, and EXC terminals are NOT electrically isolated from the power supply.

Response Time: 500 msec.

Failed Sensor Display: *OPEN*

Overrange/Underrange Input: *DL DL UL UL*

Overrange/Underrange Display: "....."/"....."

Normal Mode Rejection: 40 dB @ 50/60 Hz

Common Mode Rejection: 100 dB @ DC to 60 Hz

3. TEMPERATURE EFFECTS:

Span Drift: 100 ppm/°C max.

Zero Drift: < 1 µV/°C max.

Ordering Information

MODEL	DESCRIPTION	PART NUMBER
CUB4RT	RTD Indicator, Reflective LCD	CUB4RT00
	RTD Indicator, Red Backlit Transmissive LCD	CUB4RT20
MLPS	Micro Line/Sensor Power Supply	MLPS0000