

OMM 370T/C





- 3 ¾ digit projection
- J/K/T/E/B/S/R/N
- Aut. compensation of cold junctions
- Simple comparator
- Size of DIN 72 x 24 mm
- Power supply 10...30 V AC/DC

Description

The OMM 370T/C model is a small 3 $^{3}\!\!/\!_{4}$ digit panel thermometer for thermocouples J, K, T, E, B, S, R and N.

The instrument is based on an 8-bit controller with precise A/D converter, that secures high accuracy, stability and easy operation of the instrument.

Standard functions

Programmable input

Type J, K, T, E, B, S, R and N

Compensation of cold junctions

Type manual or automatic

also performed in "CM" may be the selection of the type of thermocouple and compensation of cold junctions, which is adjustable (0...99°C) according to temperature in the compensation box or automatic, according to temperature at the input

brackets of the instrument

Digital filters

Radius of insensitiv. band of suppressed change of measured value

External control

Hold display/instrument blocking
Lock control keys blocking

Output

Limit relay with switching contact,

The limit has both adjustable hysteresis and optional delay of the switch-on. Reaching the limits is signalled by LED and at the same time by the

switch-on of the relevant relay.

Operation

The instrument is set and controlled by four control keys located on the front panel. All programmable settings of the instrument are realised in two adjusting modes.

Configuration menu (hereinafter referred to as CM) is protected by an

optional number code and contains complete

instrument setting

User menu may contain arbitrary programming settings defined

in "CM" with another selective restriction

(see, change)

All programmable parameters are stored in the EEPROM memory (they hold even after the instrument is switched off). The display shows the measured units (°C).



Technical data

MEASURING RANGE

0°...900°C 0°...1 300°C J (Fe-CuNi) K (NiCr-Ni) Type: 0°...400°C 0°...690°C T (Cu-CuNi) E (NiCr-CuNi) B (PtRh30-PtRh6) 300°...1 820°C S (PtRh10-Pt) 0°...1 760°C 0°...1 740°C R (Pt13Rh-Pt) N (Omegalloy) 0°... 1300°C

PROJECTION

Display: Decimal point: -999...3999, red or green 7-segment LED, digit height 9,1 mm

fixed

adjustable - in Configuration/User menu Brightness:

INSTRUMENT ACCURACY

Tempco:

Accuracy:

60 ppm/°C ±0,2 % of range + 1 digit 1,3 - 2,5 - 5 - 10 - 20 - 40 measurements/s Rate:

Comp.of cold junc.: adjustable 0°...99°C or automatic Resolution:

reset after 1,2 s Watch-dog: Function: Hold/Lock (upon contact)

Digital filter - adjustable in Configuration menu at 25°C and 40 % r.h. Calibration:

COMPARATOR

Type: digital, adjustable in programming mode, contact switch-on < 30 ms

Limit -999...3999 Hysteresis: 0...99,9 s

Outputs: relay with switching contact (48 VAC/30 VDC, 3 A)

POWER SUPPLY

 $10...30\ V$ DC, max. $140\ mA$, (24 V/45 mA), isolated $12...28\ V$ AC, max. $160\ mA$, (24 V/110 mA), isolated

MECHANIC PROPERTIES

Noryl GFN2 SE1, incombustible UL 94 V-I Material:

Dimensions: 72 x 24 x 106 mm 68 x 22,5 mm Panel cut:

OPERATING CONDITIONS

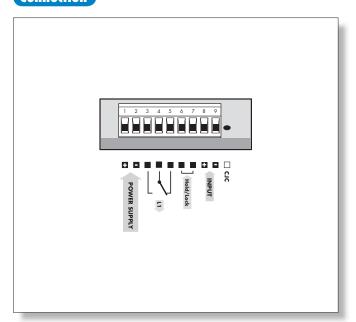
Connection: connector terminal board, conductor section up to 2,5 mm²

Stabilization period: within 15 minutes after switch-on

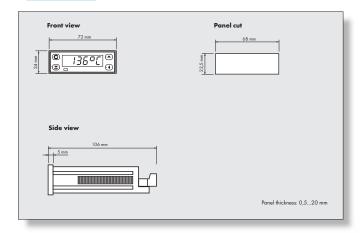
Working temperature: 0°...60°C Storage temperature: -10°...85°C IP42 (front panel only) Covering: Electrical safety: EN 61010-1, A2 Overvoltage category: for pollution degree II

II. - instrument power supply, input, relay output (300 V) EN 61000-3-2+A12; EN 61000-4-2, 3, 4, 5, 8, 11; EN 550222, A1, A2

Connection



Dimensions



Order code

