

# Temperature Sensor Type 124

## Decorative Sensor

- **Decorative wall mounted temperature sensor**
- **Two basic versions: with transmitter – 124I  
w/o transmitter – 124P**
- **HVAC applications**
- **3 years warranty**

The 124 room temperature sensor is an ideal solution for indoor applications such as HVAC in residential and official buildings.

The very stylish, functional housing makes easy installation and fast exchange of the sensing unit for service purposes possible.

Two major versions are available for the 124 sensor:

### The 124-P:

This sensor is a very cost competitive version for applications where there is no need of current output from the sensor.

We can offer a variety of resistive temperature devices (RTD's) to meet customers' needs and standard.

The most common types are the PT-100 or the PT-1000 according IEC-751 standard.

Different types of common thermo-resistors and special sensing devices are also available.

### The 124-I:

The 124 I is the same 124P sensor combined with a two wire loop powered 4÷20 mA transmitter.

The build in transmitter converts the temperature sensor signal into a standard 4÷20 mA current signal proportional and linearization to the temperature. The linearization complies with the DIN-43760 and IEC-751 standards.

The 124 I can be ordered for all common measuring ranges, or for special pre-calibrated ranges.

With two easily accessible multi-turn trim-pots (Zero and Span) located on the transmitter PCB it is very easy to perform the annual routine calibration.

The 124I is design for easy installation on wall or duct applications.



**Michshur S.Z. (1984) LTD.**

# Technical Specifications

## 124-P:

**Sensor type:** PT100, PT1000, NI1000

**Accuracy:** According DIN-43760 and IEC-751 standards

## 124-I:

**Power supply:** 9-36VDC polarity protected

**Power supply effect:** <0.005%/V

**Output:** 4-20mA

**Load:** max.  $R_{Load}(ohms) = (V_{Supply}-10)/0.020$

**Input:** RTD type PT-100 according to DIN-43760 or IEC-751

**RTD connection:** 3 wire system

**Transmitter span:** 50°C to +200°C

**Transmitter zero:** -50°C to +50°C

**Accuracy:** combined linearity, Hysteresis and repeatability:<0.15% F.S

**Sensor current excitation:** <1mA

**Temperature stability:** <+/-0.03% of span/ °K

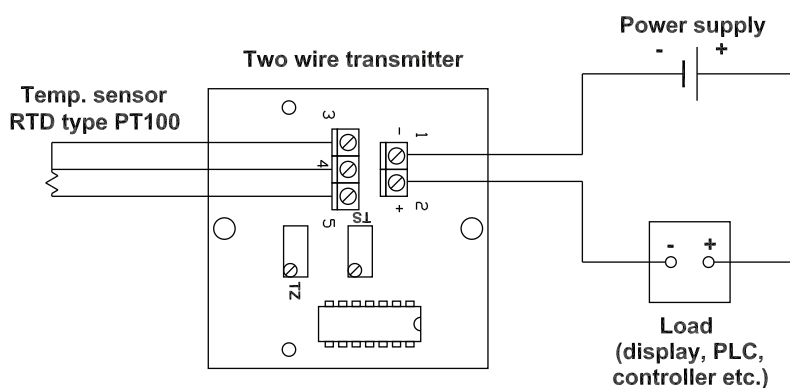
**Operating temperature:** -40 to 85 °C

**Storage temperature:** -45 to 85 °C

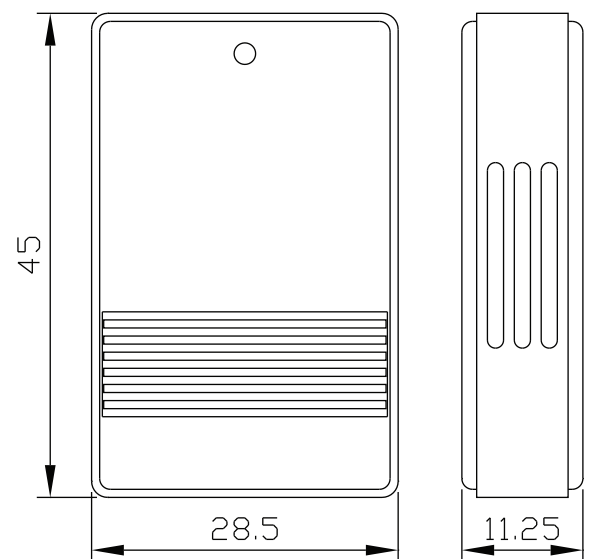
**Enclosure:** ABS

### CONNECTION DIAGRAM

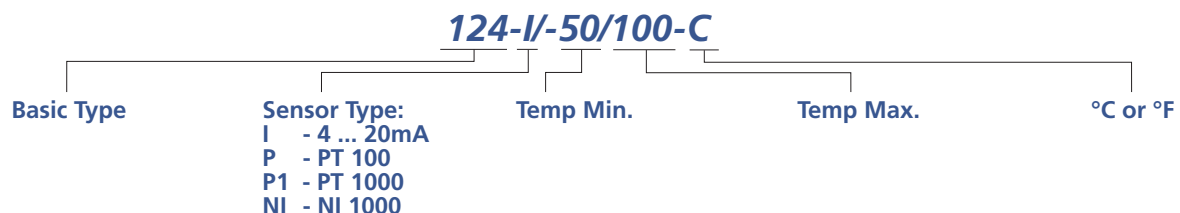
For 124-I



### DIMENSIONS (mm)



## How to order:



**Example:** 124-I/-50/100°C means transmitter for -50 to 100°C

Michshur Ltd. reserves the right to make changes to any product herein and assumes no liability arising out of the application or use of any product described or referenced herein.



**Michshur s.z. (1984) LTD.**

8 Hagavish st., P.O.B. 1951 Holon 58117, Israel  
Tel. 972-3-6508585 Fax. 972-3-6508586  
Email: info@michshur.com www.michshur.com