# Resistance temperature transducers for outdoor air – series PL11…

The resistance temperature transducers series **PL11** are designed for temperature measuring in exterior applications. Transducers are provided with the degree of protection IP 65. The concrete sensing element with the terminal board is located on the printed circuit board that is adjusted for the installation into appropriate installation box.. All kinds of common used sensing components can be used as a sensor e.g. Ni1000, Ni10000, Ni891, Pt100, Pt500, Pt1000, NTC 10kΩ, NTC 20kΩ, type KTY, SMT160, sensors DALLAS and others.

## Summary

| Type | PL11L | PL11S | PL11J | PL11H | PL11P | PL11PA | PL11PB | PL11LA | PL11SA |
|---|---|---|---|---|---|---|---|---|---|
| Sensor type | NI1000 Tk = 5000 | NI1000 Tk = 6180 | NI1000 Tk = 6371 | NTC 20kΩ | Pt100 Tk = 3850 | Pt1000 Tk = 3850 | Pt500 Tk = 3850 | NI10000 Tk = 5000 | NI10000 Tk = 6180 |

## Basic technical parameters

| | | | |
|---|---|---|---|
| Measuring range | -30 to 80 °C | Current load Imax. | 0,5 mA |
| Accuracy | class B | Current load Imax. (Pt100) | 2 mA |
| Ambient temperature | -30 to 80 °C | Degree of protection | IP 65 |
| Relative humidity | < 80% | Cable recommended cross section | 0,35 to 2 $mm^2$ |

## Mounting the transducers

Screw out the small screws and remove the head cover. Then, connect the lead-in cables of the recommended cross section from 0,35 to 2 $mm^2$ and of the outer diameter 4 to 8 mm to the terminal board through the cable gland. Once the small screws are screwed in and the cover is placed back into its position, the mounting is terminated and the transducer is ready for operating.

## Method of ordering

State the quantity of pieces and the transducer type in your order.
An order example: **5 pieces transducer PL11L**

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