

Type code	Meas. element	Meas.accuracy
TMO / NTC10	NTC 10	± 0,2 °C (0-70 °C)
TMO / Pt1000	Pt 1000	<u>+</u> 1 °C (0-70 °C)
TMO / Ni1000	Ni 1000 LG	<u>+</u> 1 °C (0-70 °C)

Technical information:

Materials Cover PC, base PBT, seal PA

Protection class IP 54
Seal M16 x 1,5
Range of use -50 °C...+ 50 °C

Time constant 10 min

Dimensions:



Installation and connection

Position the outdoor sensor (TMO) preferrably in a shady place on the northern side. Install the outdoor sensor at a high of about 2.5 meters.



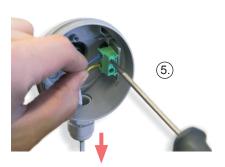
Do not install the sensor directly above a window, door, vent or sensor cable protection tube coming from indoors (warm air rises and gives a wrong reading.

The sensor must not be installed next to an exhaust duct or any other source of heat.



- 2. The plug can be attached to the wall
- 3. Put the membrane seal into place on the bottom of the sensor
- 4. Screw a screw through the membrane seal to puncture it. Screw the sensor to the wall. Make sure that the cable's bushing seal on the case goes down.
- Connect the sensor to the regulating device as a two-wire connection using weak current cable. The polarity of the cable is irrelevant.
- 6. Tighten the bushing seal so that it acts as a seal and repels water.







NTC10 Tol. ± 0,2 °C (0-70 °C)

emperature/Resistance			
°C	Ω		
-50	672 600		
-40	337 270		
-30	177 210		
-25	130 540		
-20	97 140		
-15	72 990		
-10	55 350		
-5	42 340		
0	32 660		
5	25 400		
10 15	19 900 15 710		
20	12 490		
25	10 000		
30	8 055		
35	6 531		
40	5 325		
45	4 368		
50	3 602		
55	2 987		
60	2 488		
65	2 084		
70	1 753		
75	1 482		
80	1 257		
85	1 072		
90	917,4		
95 100	788,2 679,8		
110	511,0		
120	389,4		
130	300,5		
140	234,7		
	•		

Ni 1000 LG

Tol. ± 0,4 °C (0 °C) **DIN EN43760** tcr 5000 ppm / K

tor oooo ppiii / it			
emperature/Resistance			
°C	Ω		
-50	790,9		
-40	830,8		
-30	871,7		
-25	892,5		
-20	913,5		
-15	934,7		
-10	956,2		
-5	978,0		
0	1000,0		
5	1022,3		
10 15	1044,8 1067,6		
20	1007,0		
25	1114,0		
30	1137,6		
35	1161,5		
40	1185,7		
45	1210,2		
50	1235,0		
55	1260,1		
60	1285,4		
65	1311,1		
70 75	1337,1		
75 80	1363,5 1390,1		
85	1417,1		
90	1444,4		
95	1472,0		
100	1500,0		
110	1557,0		
120	1615,4		
130	1675,2		
140	1736,5		

Pt 1000

Tol. ± 0,3 °C (0 °C) **DIN EN60751 B** tcr 3850 ppm / K

Temperature/Resistance		
	°C	Ω
	-50	803,1
	-40	842,7
	-30	882,2
	-25	901,9
	-20	921,6
	-15	941,2
	-10	960,9
	-5	980,4
	0	1000,0
	5	1019,5
	10	1039,0
	15	1058,5
	20	1077,9
	25 30	1097,3 1116,7
	35	1116,7
	40	1155,4
	45	1174,7
	50	1194,0
	55	1213,2
	60	1232,4
	65	1251,6
	70	1270,8
	75	1289,9
	80	1309,0
	85	1328,0
	90	1347,1
	95	1366,1
	100	1385,1
	110	1422,9
	120 130	1460,7 1498,3
	140	
		1535,8
[K]	Toloron	- Dt 1000

