

## **OUTSIDE AIR TEMPERATURE SENSOR**

**For order:**

OTS-N for controllers MicroNet series MNN type (MN 300/440/500/620)

OTS-L for controllers MicroNet series MNL type (50/110/130/100/150/200/800)

The OTS is a sensors for outside temperature control of. These sensors are available with the standard Satchwell temperature sensor output characteristic (OTS-N) and with a '10K' Invensys Building Systems characteristic (OTS-L).



## **FEATURES**

- Wide range of temperatures
- High accuracy
- Compact dimensions
- Easy installation

## SPECIFICATION

<b>Type:</b>	OTS –outside air temperature sensor
<b>Temperature:</b>	-40...+120°C
<b>Compatible controllers:</b>	OTS-N: MNN (300/440/500/620) OTS-L: MNL (50/110/130/150/200/800)
<b>Sensing Element:</b>	Negative Temperature Coefficient thermistor NTC 10K
<b>Accuracy:</b>	±0,2°C at 25 °C
<b>Protection Class:</b>	IP 65
<b>Wiring:</b>	2-wire non-polarised low voltage dc
<b>Stem Material:</b>	Stainless Steel+ Teflon
<b>Terminas:</b>	2x1,5 mm <sup>2</sup>
<b>Head:</b>	Plastic

## CHARACTERISTICS

### Sensor Temperature / Resistance

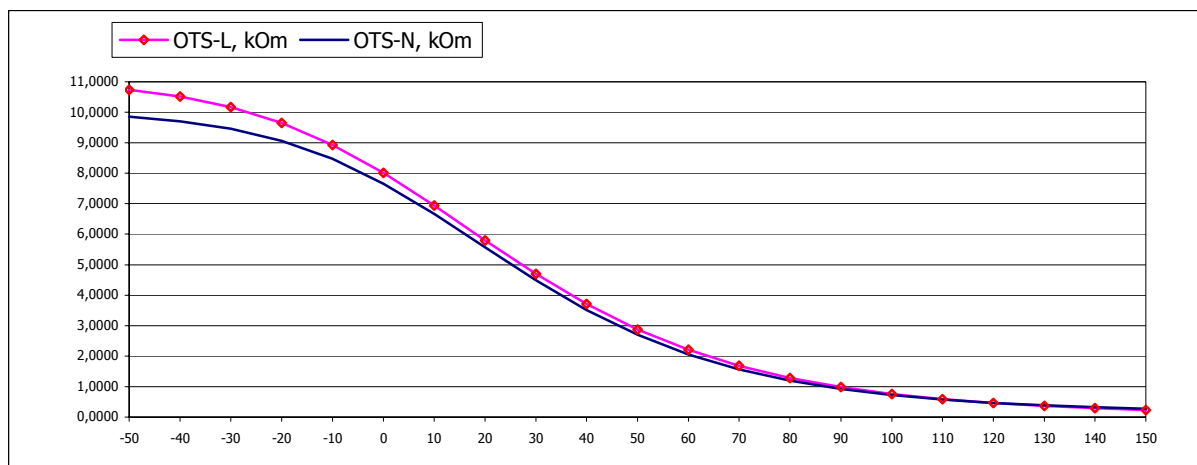
T, °C	OTS-L, kOm	OTS-N, kOm
<b>25</b>	<b>5.23810</b>	<b>5.02488</b>
-50	10.73242	9.85301
-40	10.51735	9.71148
-30	10.17293	9.46553
-20	9.65421	9.06699
-10	8.93304	8.47165
0	8.01161	7.66082
10	6.93687	6.66667
20	5.79794	5.57326
30	4.69595	4.49248
40	3.70733	3.51744
50	2.87538	2.70180
60	2.20640	2.05593
70	1.68514	1.56261
80	1.28737	1.19408
90	0.98676	0.92246
100	0.76034	0.72236
110	0.59014	0.57511
120	0.46158	0.46657
130	0.36395	0.38554
140	0.28938	0.32452
150	0.23200	0.27805

## INSTALLATION

1. Remove the cover
2. Fix the sensor using the fixing screws provided.
3. Connect the two controller wires (non-polarised) to the terminal block.
4. Replace the cover

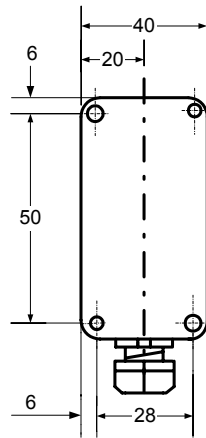
## WIRING DIAGRAMS AND CAUTION

Refer to Data Sheet relevant to the controller to which sensor is to be connected (compatible controllers are given above). Maximum resistance, 15Ω per core.



## DIMENSION DRAWINGS

### OTS



Dimensions in mm

## Soliton Controls Systems

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### Cautions

- Do not apply power to the system until it has been checked by a qualified technician and the commissioning procedures have been completed
- These sensors must only be used in conjunction with the appropriate controllers shown on page 2
- Observe wiring precautions given on the data sheet for the controller that the sensor will be connected to.
- Do not exceed the maximum ambient temperature.
- Design and performance of Soliton equipment are subject to continuous improvement and therefore liable to alteration without notice.