External sensor for JABLOTRON thermostats

Code: JB-TS-NTC10K

The sensor for JB-111TP, JB-151TP, JB-111TH, JB-151TH, JB-112TP and JB-112TH thermostats enables external measurement of the temperature of floors, saunas, swimming pools or freezers. This is a TS-EXT-NTC10K product from Sensit

Product description:

Main specifications

4,6 x 24 mm / 3 m

Passive sensor

Measuring more than just floor temperature

The external sensor is compatible with the new JB-111TP, JB-151T, JB-111TH, JB-151TH, JB-112TP, and JB-112TH thermostats. It is primarily designed to measure floor temperature and perform

related informational and safety functions of the thermostat.

According to hygiene standards, the floor temperature should not exceed 29°C in living areas and 33°C in rooms used for short periods (e.g. bathrooms). Higher temperatures can have negative effects on human health or cause damage to the floor.

The sensor can also be used for informative measurement in other applications where a thermostat cannot be installed. For example, measuring the temperature in saunas, freezers, non-aggressive liquids, pipes, etc.

🚫 What to look out for when designing the system

❌ To measure the floor temperature, the sensor should be placed in a suitable protective cover, at least 30 cm from the wall, in the middle of the distance between the pipe or cable loop.

❌ The sensor must not be confused with the JB-TS-PT1000 type designed for JB-EXT-TH-X external thermometers.

❌ Extending the cable may distort the measured temperature. We recommend installing the sensor close to the thermostat so that a cable length of 3 m is sufficient.

Read more about construction preparation and connecting JABLOTRON 100+ to the heating system

Technical information:

Maximum operating temperature range	-50 to +200 °C (may be limited by the type of sensor, specified in the instructions for use)
Sensor	Pt, Ni, NTC
Degree of protection	IP 67 according to EN 60529
Housing materiál	Brass
Housing diameter/length L	4.6 mm / 24 mm
Supply cable	Shielded silicone 2 x 0.22 mm2
Cable resistance	0.16 Ω per 1 m of cable for a 2-wire connection
Response time	$\tau_{0.5}$ <7 s (in flowing water 0.4 m·s^{-1})