

1-WIRE TEMPERATURE SENSOR

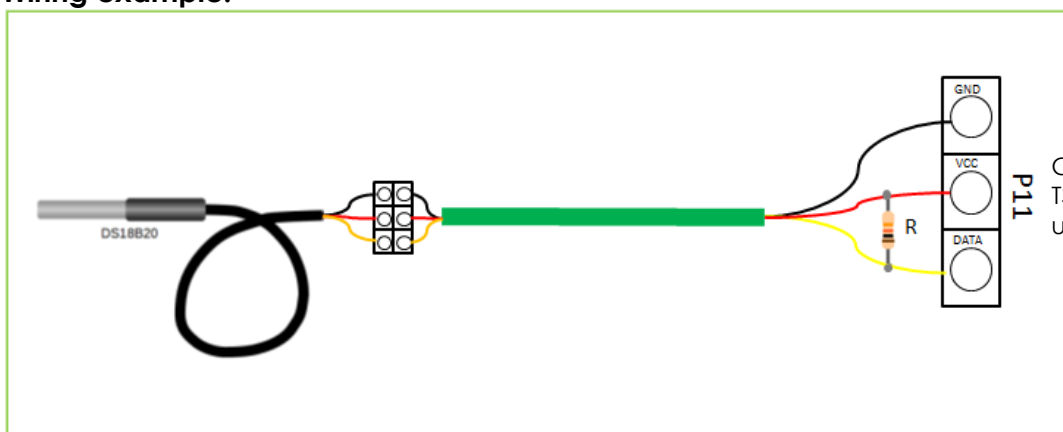
TEMPERATURE

Digital temperature sensor in a watertight container. It is able to take temperature measurements between -55 and 125°C with an accuracy of ± 0.5 . Each sensor is coded with a unique 64-bit address that allows the simultaneous use of multiple sensors on the same communication bus.



Model	EXTERNAL	WELL
Code	SND-EXT	SND-POZT
Measure Limits	-55°C +125°C	-55°C +125°C
Accuracy	$\pm 0,5^{\circ}\text{C}$	$\pm 0,5^{\circ}\text{C}$
Communication protocol	1-Wire	1-Wire
Storage temperature	-55°C + 125°C	-55°C + 125°C
External Box	YES (IP65)	NO

Wiring example:



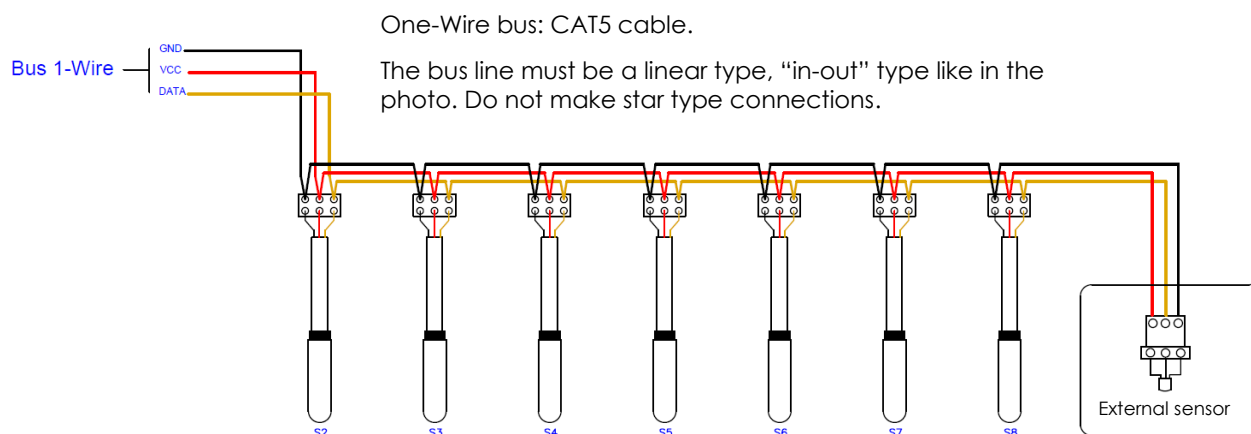
Connector on the TSH or TST central unit.

Insert a resistor on the TSH or TST control unit connectors as shown in the figure, the nominal value of the resistor can be deduced from the following table, depending on the length of the cable and the number of sensors.

		DISTANCE (meters)							
		25	50	75	100	125	150	175	200
S E N S O R S	5	-	4,7K	4,7K	4,7K	4,7K	4,7K	1K	1K
	10		4,7K	4,7K	4,7K	4,7K	1K	1K	1K
	15			4,7K	4,7K	4,7K	1K	1K	1K
	20				4,7K	1K	1K	1K	1K

Distance/Sensors Nr table for resistors

One-Wire bus with multiple sensors



External temperature sensor box (IP65) dimensions: 120 x 32 x 46 mm.



One-Wire connection to the CIOT expansion module.

Another possibility is to connect up to three 1-wire T sensors directly to the CIOT expansion module.

In this case you do not need to use the bus type connection, instead you need to connect the single sensors to the CIOT connector input in a one to one type connection (no bus).

Connect up to 3
One-Wire
temperature
sensors

