

Temp-1Wire

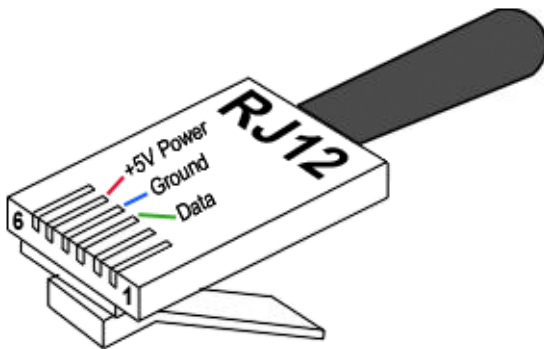
Digital temperature sensor, communicating over the 1-Wire bus (Poseidon **1W bus**). The sensor is designed for the Poseidon measuring unit.

You can have ten parallel sensors on one 1W bus, each one is identified by a unique serial number. The temperature sensor uses an integrated measuring element with accuracy of $\pm 0.5^{\circ}\text{C}$.

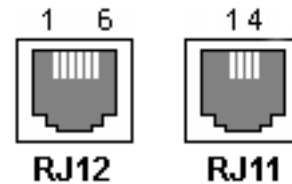
All sensors use RJ11 connector.



Connectors



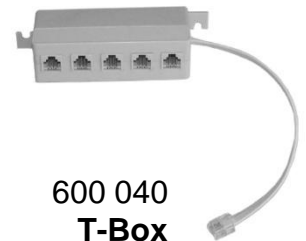
RJ12	RJ11			
3	2	Data	<->	Data 1-Wire
4	3	GND	---	System Ground
5	4	+5V	---	Power supply



Technical parameters

Sensor measured temperature.....	-10°C to +125°C
Sensor resolution.....	0.01 °C
Measuring accuracy	+/- 0.5 °C in range from -10°C to +85°C +/- 2 °C in range from -55°C to +125°C
Measuring element.....	DS18B20
Communication.....	1-Wire bus – DS18B20 specification
Communication line	1-Wire (Data, GND, +5V)
Other elements	Pull-up resistor 10 kΩ, power supply capacity: 100nF

OID	NAME	Description		
600 005	Temp-1Wire 3m	3m	-10°C to +80°C	The sensor cable, black covering
600 242	Temp-1Wire 1m	1m	-10°C to +80°C	The sensor cable, black covering
600 056	Temp-1Wire 10m	10 m	-10°C to +80°C	The sensor cable, black covering
600 311	Temp-1Wire-Outdoor 3m	3m	-50°C to +125°C	The silicon cable, stainless steel
600 337	Temp-1Wire-Flat 3m	3m	-30°C to +60°C	Freezer flat cable sensor, stainless steel probe
600 329	Temp-Rack19	2 RJ11	-10°C to +80°C	RJ11 on the sensor, 3m cable included. 1U 19" mountable
600 330	HTemp-Rack19	2 RJ11	-10°C to +80°C	
600 344	HTemp-1W Box2	2 RJ11	-10°C to +80°C	RJ11 on the sensor, 3m cable included.

600 344 **HTemp-1W Box2**600 329
Temp-Rack19600 330
HTemp-Rack19600 311
Temp-1Wire-Outdoor 3m600 337
Temp-1Wire-Flat 3m600 280
T-Box2600 242
Temp-1Wire 1m600 005
Temp-1Wire 3m600 040
T-Box

OID	Sensor types
600 005	Temp-1Wire 3m - RJ11 connector, sensor in black covering, -10°C to +80°C range
600 242	Temp-1Wire 1m - RJ11 connector, sensor in black covering, -10°C to +80°C range
600 056	Temp-1Wire 10m - RJ11 connector, sensor in black covering, -10°C to +80°C range
600 311	Temp-1Wire-Outdoor 3m – silicone cable 3m, IP67, sensor covered in stainless steel 60mm, ø5.7mm, temperature range: -50°C to +125°C
600 337	Temp-1Wire-Flat 3m - outdoor / fridge use Temperature probe in 60mm long casting from stainless steel 17240, diameter 5.7mm. flat cable 3m long, IP67 waterproof design. Temperature range: -30°C to +60°C Flat cable allows easy installation into the refrigerator.
600 329	Temp-Rack19 - 2 RJ11 connectors on the sensor, RJ12 cable included. Designed for 19" rack cabinets to be placed as 1U device.
600 330	HTemp-Rack19 – Temperature & Humidity sensor, 2 RJ11 connectors on the sensor, RJ12 cable included. Designed for 19" rack cabinets to be placed as 1U device.
600 344	HTemp-1W Box2 – Temperature & Humidity sensor, 2 RJ11 connectors on the sensor, RJ12 cable included. Designed for wall montage.
600 040	Poseidon T-Box - Hub for connecting up to 5 sensors to 1-Wire bus (5x RJ12)
600 280	Poseidon T-Box2 - Hub for connecting of 2 sensors to - connecting cable 3m long

Wiring examples

