# 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 ± 0.5°C.

All sensors use RJ11 connector.
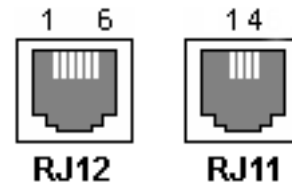
Connectors
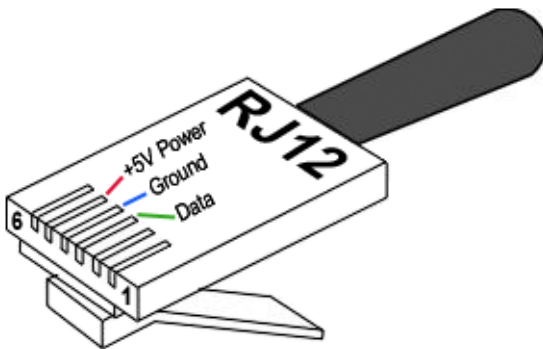
RJ12	RJ11			
3	2	**Data**	<->	Data 1-Wire
4	3	**GND**	---	System Ground
5	4	**+5V**	---	Power supply

Technical parameters

Sensor measured temperature.......................... -30°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	-30°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**
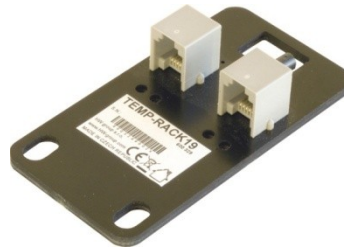
600 329
Temp-Rack19

600 330
HTemp-Rack19

600 311
Temp-1Wire-Outdoor 3m

600 337
Temp-1Wire-Flat 3m

600 280
T-Box2

600 242
Temp-1Wire 1m

600 005
Temp-1Wire 3m
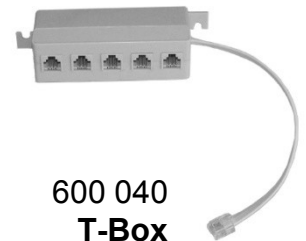
600 040
T-Box

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: -30°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

Poseidon **3262**

T-Box

1m

1m

1m

1m

3m

°C %RH

HTemp-Rack19

Temp-1Wire 1m

Poseidon **3262**

1m

1m

3m

3m

3m

3m

°C %RH

Temp-Rack19

HTemp-Rack19

Poseidon **3262**

T-Box

1m

1m

1m

1m

1m

1m

T-Box2

Temp-1Wire 1m