

Temp 1-Wire

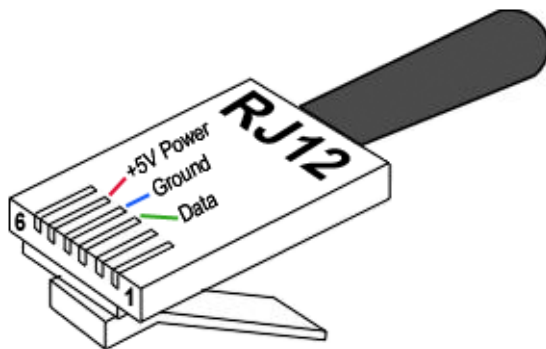
A simple digital temperature sensor, communicating over 1-wire bus (MicroLan). The sensor is designed for the Poseidon measuring unit.

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

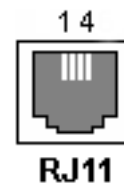
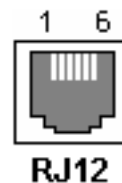
- **RJ12 or RJ11**
Default type, recommended to use with all RJ12 based Poseidon models



Connectors



DB9M	RJ12	RJ11			
4	3	2	Data	<->	Data 1-Wire
5	4	3	GND	---	System Ground
6	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	Temp-1Wire 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