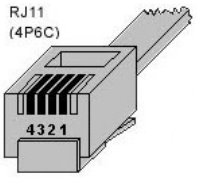
1-Wire (UNI) bus (RJ11)

The bus from Dallas Semiconductor company, which is designed to connect several sensors on a sort distances. The bus contains power supply and one data cable, it is not suitable for places with EMC disturbance.



- **Maximum wiring length :** 60 meters of total lenght
- **1-Wire UNI**: Software extension for other than temperature and humidity sensors.
- **Supported sensors:** temperature, humidity and other sensors (*>> The list of sensors in out assortment*)
- **Number of sensor on 1-Wire bus:** Maximum of 10 sensors (see the device model)
- **Sensor power supply:** 5V/50 mA over RJ12 connector
- **Sensor consumption:** Power supply from the bus is sufficient for all connected sensors
- **Communication cable:** phone cable - 4-wire (2-wire in special cases)
- **Alarm setting:** Controlling values in the safe range, setting via Poseidon Flash setup
- **Sampling period:** 800 ms to 10 seconds (according to the number of connected sensors, 10 seconds for 41 sensors)
- **Sensor address:** Automatically, each sensor has its unique address
- **Detection of sensor disconnecting:** Yes, disconnected sensor responds "-999.9" value.
- **Sensor disconnection alarm:** Disconnecting of sensor causes Alarm status if sensor indicates alarm (value out of safe range).

- **Special accessories**
- **Poseidon T-Box2** [600 280] (photo)
- **Poseidon T-Box** [600 040]
  A switch to connect up to 5 sensors to 1-Wire bus (5x RJ-12)

  - **Poseidon T-Box 1140** [600 039]
    A switch to connect up to 5 sensors to 1-Wire bus (5x RJ-12) - For the Poseidon model 1140 only
  - **Temp-1Wire** - Temperature sensor in several modifications according to the cable length
  - *>> The list of sensors in our assortment*

- **Pin connecting**
  RJ11 and RJ12 connectors have the same measurements, RJ12 connects 6 pins, RJ11 only 4 pins.

Port 2 - RJ12

RJ12	RJ11		
1		**+5V**	Power
2	1	-	Not used
3	2	**Data**	Transmit Data
4	3	**GND**	Ground
5	4	+**5V**	Power
6		-	Not used

Notice: *The T-Box unit supports connecting of several sensors with RJ12 connector to one Poseidon connector. They can be series-connected. Remember total maximum length of 1-Wire bus wiring (10 meters).*