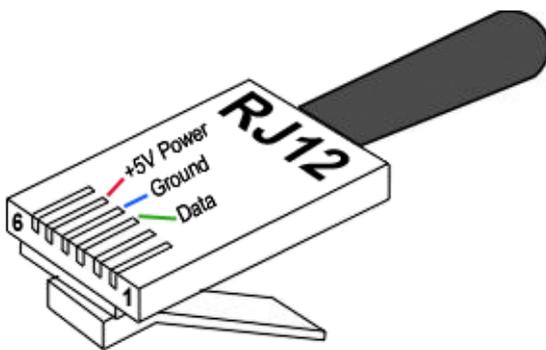# Humid-1Wire

A simple digital humidity sensor, communicating over 1-wire bus (MicroLan).
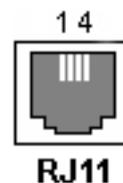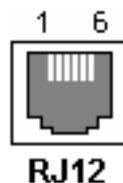*The sensor is designed for using with the Poseidon family products.*

You can have several parallel sensors on one bus, each one is identified by a unique serial number. The humidity sensor uses an integrated measuring element with accuracy of ±2% RH.

Connectors

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

Technical parameters

- RH Accuracy — ±2% RH, 0-100% RH non-condensing, 25 °C
- RH Interchangeability — ±5% RH, 0-60% RH; ±8% @ 90% RH typical
- RH Linearity — ±0.5% RH typical
- RH Hysteresis — ±1.2% RH span maximum
- RH Repeatability — ±0.5% RH
- RH Response Time, 1/e — 15 sec in slowly moving air at 25 °C
- RH Stability — ±1% RH typical at 50% RH in 5 years

- Communication — 1-Wire bus
- Communication line — 1-Wire (Data, GND, +5V)
- Other elements — Pull-up resistor 10 kΩ, power supply capacity: 100nF

OID	Sensor type
600 278	**Humid-1Wire 1m -** **RJ11 connector / 1 m** cable / black covering
600 279	**Humid-1Wire 3m -** **RJ11 connector / 3 m** cable / black covering
600 333	**Humid-1Wire 10m -** **RJ11 connector / 10 m** cable / black covering
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.