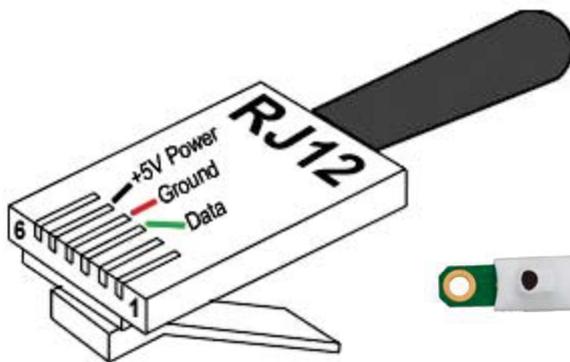# Humid-1Wire

A simple digital humidity sensor, communicating over 1-wire bus (MicroLan). The sensor is designed for using with the Poseidon family products.
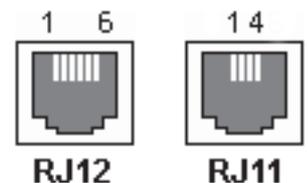
You can have several parallel sensors on one bus, each one is identified by a unique serial number. The humidity sensor uses an integrated measuring element with accuracy of ±2% RH.

Connectors

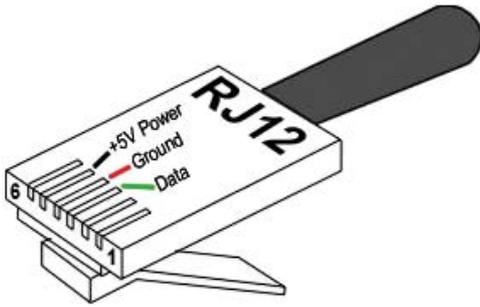| RJ12	RJ11			
3	2	**Data**	<->	Data 1-Wire
4	3	**GND**	---	System Ground
5	4	**+5V**	---	Power supply

Technical parameters

- **Sensor range**   **0-100% RH**   (Relative Humidity)

- RH Accuracy   ±2% RH, 2-80%RH non-condensing, 25 °C
- RH Linearity & Hysteresis   <2% RH typical, ±2% RH span maximum
- RH Repeatability   ±0.2% RH
- RH Response Time, 1/e   15 sec in slowly moving air at 25 °C
- Communication   1-Wire bus (Data, GND, +5V) - RJ11 male

- Probe dimension & cable   78 x 9.5 x 6 mm, cable 3m
- Montage drill   Ø3mm
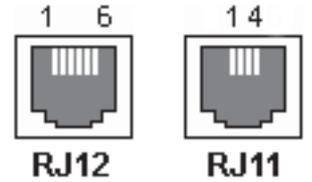- Operating temperature range -40°C to +85°C

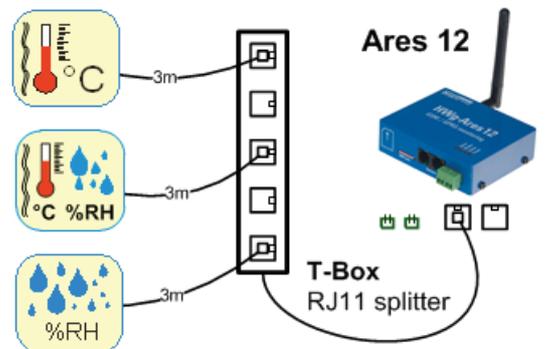| Similar sensors	
Humid-1Wire 1m / 3m / 10m	*Humidity sensor for indoor usage, RJ11 connector, 1m / 3m / 10m cable.*
HTemp-1Wire Outdoor 3m	*Temperature & Humidity outdoor sensor, 3m cable RJ11 connector.*
HTemp-1Wire 3m	*Temperature & Humidity sensor, 3m cable RJ11 connector.*
HTemp-1Wire Box2	*Temperature & Humidity sensor, 2x RJ12 female (can be daisy-chained). Boxed version designed for internal usage*
HTemp-1Wire Rack19	*Temperature & Humidity sensor, 2x RJ12 female (can be daisy-chained). Designed for 19" rack cabinets usage.*

Connectors

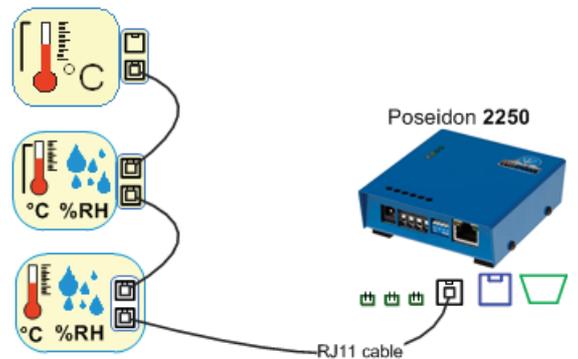| RJ12	RJ11			
3	2	Data	<->	Data 1-Wire
4	3	GND	---	System Ground
5	4	+5V	---	Power supply

Sensors wiring examples

Star topology – 60m in total:

You can use the T-Box or T-Box2 splitters to connect more sensors to one device active port.

Daisy-chained – 60m in total:

There are **two RJ11 female connectors** on some sensors.

4x active port, 4x60m: