

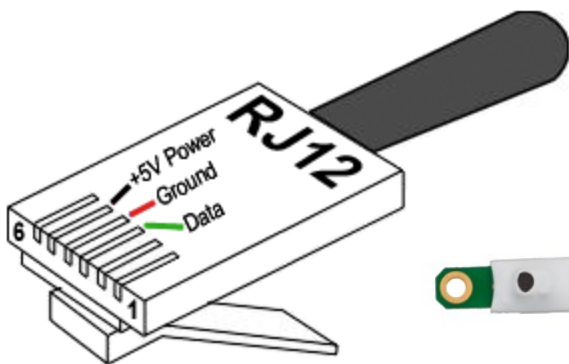
# Humid-1Wire

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

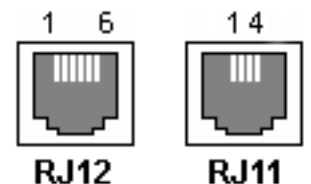
You can have several parallel sensors on one bus, each one is identified by a unique serial number. The humidity sensor uses an integrated measuring element with accuracy of  $\pm 2\%$  RH.



## Connectors



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



## Technical parameters

- RH Accuracy  $\pm 2\%$  RH, 0-100% RH non-condensing, 25 °C
- RH Interchangeability  $\pm 4\%$  RH, 0-60% RH;  $\pm 6\%$  @ 90% RH typical
- RH Linearity  $\pm 0.5\%$  RH typical
- RH Hysteresis  $\pm 1.2\%$  RH span maximum
- RH Repeatability  $\pm 0.5\%$  RH
- RH Response Time, 1/e 15 sec in slowly moving air at 25 °C
- RH Stability  $\pm 1\%$  RH typical at 50% RH in 5 years
- Communication 1-Wire bus
- Communication line 1-Wire (Data, GND, +5V)
- Other elements Pull-up resistor 22 k $\Omega$ , power supply capacity: 100nF

| OID     | Sensor type   |
|---------|---|
| 600 487 | Humid-1Wire 1m - RJ11 connector / 1 m cable / black covering  |
| 600 488 | Humid-1Wire 3m - RJ11 connector / 3 m cable / black covering  |
| 600 489 | 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.                               |