

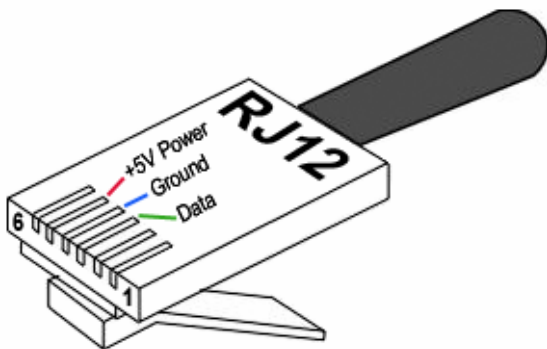
# Humid-1Wire

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

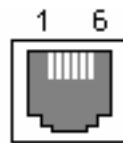
You can have several parallel sensors on one bus, each one is identified by a unique serial number. The humidity sensor uses an integrated measuring element with accuracy of  $\pm 2\%$  RH.



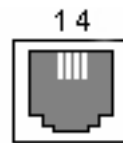
## Connectors



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



RJ12



RJ11



## Technical parameters

- |                         |   |
|-------------------------|---|
| • RH Accuracy           | $\pm 2\%$ RH, 0-100% RH non-condensing, 25 °C                 |
| • RH Interchangeability | $\pm 5\%$ RH, 0-60% RH; $\pm 8\%$ @ 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 10 k $\Omega$ , power supply capacity: 100nF |

## Sensor types

OID	Humid-1Wire type
600 278	RJ11 connector / 1 m cable / black covering
600 279	RJ11 connector / 3 m cable / black covering