

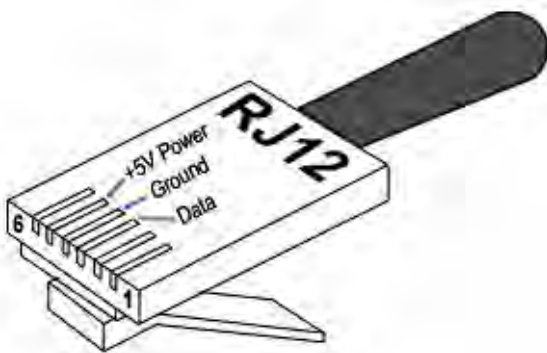
Humid-1Wire

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

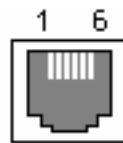
You can have several parallel sensors on one bus, each one is identified by a unique serial number. The humidity sensor uses an integrated measuring element with accuracy of $\pm 2\%$ RH.



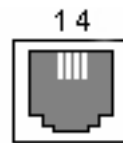
Connectors



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 Ω , 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