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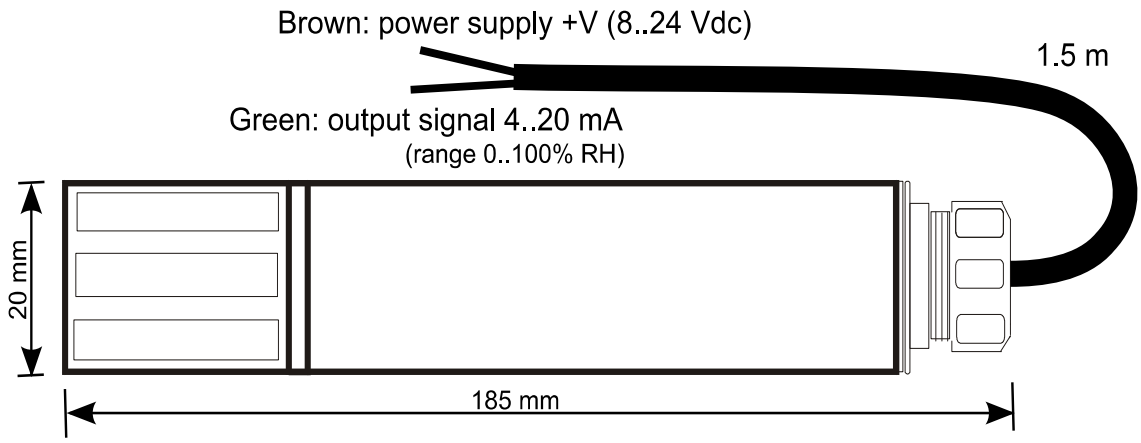
HUMIDITY PROBE HR03

TECHNICAL DATA

IP protection rating (of the body):	IP65
Mounting:	use the clip supplied together with the sensor
Electrical connections:	PVC twin wire
Cable length:	1,5 meter
Dimensions:	185 x 20 mm
Power supply:	8…24 Vcc
Power input:	20 mA max
Ambient temperature:	-10 … +70 °C
Humidity measurement range:	5 … 95 % rh
Output current of humidity measurem.:	4 mA (0% rh) … 20 mA (100% rh)
Humidity sensor type:	digital
Response time in steady state:	30 seconds
Number of connection wires:	2 (brown: +V power supply , green: signal output)
Maximum load:	250 Ohm
Humidity measurement accuracy:	±3% rh (20…80% rh), ±5% rh otherwise
Reverse polarity protection:	auto protected



GENERAL DESCRIPTION

The **HR03** is a probe designed to be connected to a humidity-measuring device. Output signal is a dc current within the range 4 … 20 mA.

INSTALLATION

To install the sensor use the clip supplied in the package; refer to the label applied on the probe for the electrical connections.
The parameters humidity measurement limits must be adjusted on the Beta controller: SLL=0 and SUL=100.
Humidity reading errors can be caused by steam, sprayed water and presence of condensate on the sensor; when installing the sensor, make sure it is well protected against such factors. To obtain highly accurate measurement, the sensor should be left to settle in the existing atmosphere for some time; since the sensor has a mass which affects the measurements, such "settling time" should be allowed especially when the sensor is exposed to a temperature jump. Condensate may form on the humidity sensor when there is a quick variation of temperature. However, this fact will not damage the humidity sensor.

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