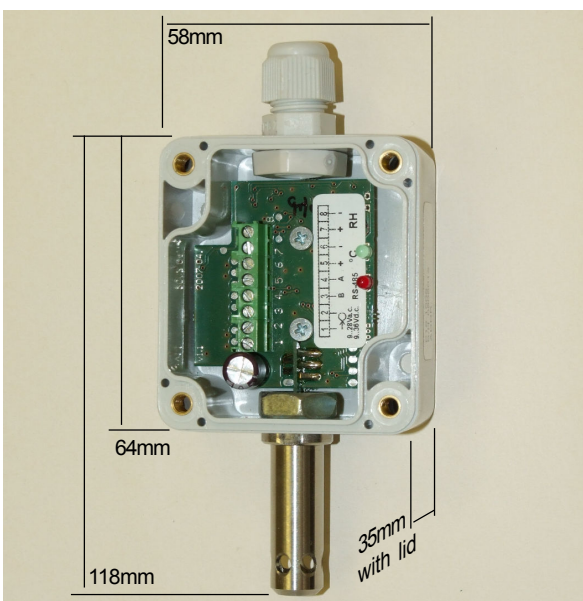
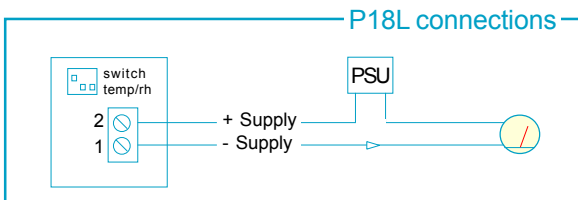
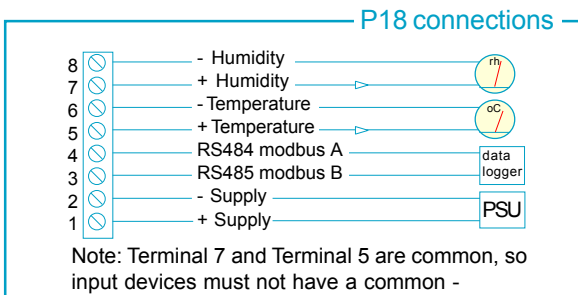


Temperature & Humidity transmitter. Model P18 / P18L



- Combined temperature and humidity
- Economical and easy to use
- 4-20mA or 0-10V and Modbus output
- Sealed rugged enclosure



Specifications

Relative humidity range	0...100%
Basic error - humidity	± 2% for RH = 10...90%
	± 3% remaining range
Hysteresis for humidity	± 1%
Temperature range	- 30...85oC
Temperature accuracy	± 0.5% of range
Temperature influence	± 25% /10 deg. C

Intended installation

The P18 or P18L transducer is fixed to a wall by way of 2 screw holes, outside the main sealed enclosure. Must be mounted in a typical area to be monitored, in order to give realistic representation of conditions in that area.

RS-485 digital output (P18 only):

Transmission protocol	MODBUS
Baud rate	4800, 9600, 19200, 38400, 57600 bit/s
Format RTU	8N2, 8E1, 8O1, 8N1
Response time	300 ms

Analogue output

Current	4 to 20 mA or 0-10V
Current output load	200 Ohms max

P18L has a simple single 2 wire connection, where the unit modulates the current in the power supply cable. A selector switch chooses whether the output is proportional to temperature or humidity

P18 has an active output, giving simultaneous temperature and humidity + modbus data.

Rated operating conditions:

Supply	9 to 36 V d.c.
Consumption	< 2 VA
Ambient temperature	- 30 to 85 deg. C
Relative air humidity	< 95% non condensing
Preheating time	15 minutes
Protection	IP 65
Weight	125 g

Electromagnetic compatibility:

- immunity acc. to EN 61000 -6-2
- emission acc. to EN 61000 -6-4

Installation requirements

- acc. to EN 61010-1**
- installation category III
 - pollution grade 2
 - working voltage in relation to earth 50 V

Fixing positions

Dry areas	Any
Exposed to water	With the sensor pointing down

Ordering Code

- P18-1** = Advanced unit 2 x 4-20mA + modbus output
- P18-2** = Advanced unit 2 x 0-10V + modbus output
- P18L** = Basic unit , single 4-20mA output, selectable either temperature or humidity.