



Transmitter PFT25K
as duct sensor

- Measuring temperature and relative humidity with a „single-chip“-sensor
- Fast response time
- Digital transmission from sensor to the evaluation electronics
- Operational use temperature -30...+50 °C
- Operational use humidity 0...100 %
- Additional computed values: dew point temperature, absolute humidity, wet bulb temperature and enthalpy
- Analogue outputs 0...10 V or 4...20 mA
- Sensor interchangeability without need for re-calibration
- Exchange sensor available separately
- Supply voltage 15...30 Vdc or 24 Vac
- Protection class IP 65

The climate transmitter PFT25 converts the directly measured values temperature and relative humidity into often used climatic values dew point temperature, absolute humidity, wet bulb temperature and enthalpy by digital calculation.

The device has two analogue outputs, output 1 is always set to temperature, whilst the second output can be set to 4 further values by a two stage dip-switch.

The design of the PFT25 corresponds to the transmitter PFT22.



Transmitter PFT25R
as door sensor with 2 x 0...10 V output

Specifications

Sensor: single-chip sensor for humidity and temperature with digital signal transmission and calibration memory on the chip.

Temperature: -30...0...+50 °C
 Relative humidity: 0...100 %

Output 2 is selectable to:
 Relative humidity: or 0...100 %
 Absolute humidity: 0...50 g water/kg air
 Wet bulb temperature: -30...0...+50 °C
 Dew point: -30...0...+50 °C
 Enthalpy: Sensor: 0...200 kJ/kg

Special measuring range:

Absolute humidity: AF = 0...50 g/kg

All measured and calculated values are shown with a resolution of 12 bits. For the calculation, a mean air pressure of 1000 hPa is used. To achieve maximum accuracy, the location of medium height and air pressure are given on the spot.



Transmitter PFT25R
as door sensor with 2 x 4...20 mA output

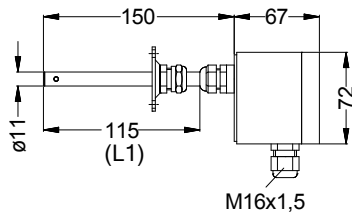
Output 2 - selectable values

DIP-switch	Output	
1off 2off	relative humidity	0...100 %
1on 2off	dew point	-30...0...+50 °C
1off 2on	Wet bulb temperature	-30...0...+50 °C
1on 2on	Enthalpy	0...200 kJ/kg

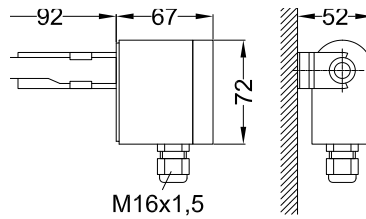
CLIMATE TRANSMITTER PFT25



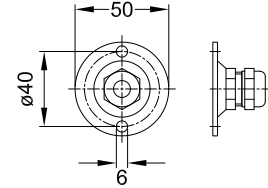
Dimensions (mm) PFT25K



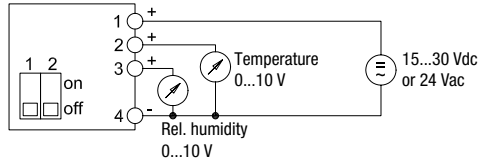
Dimensions (mm) PFT25A



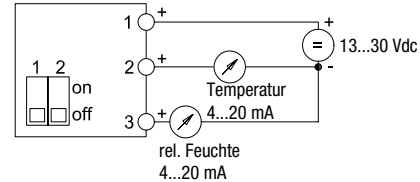
Mounting flange MF-M90



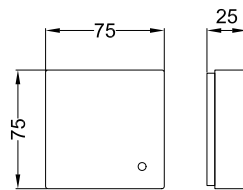
Connections - 2 x supply voltage



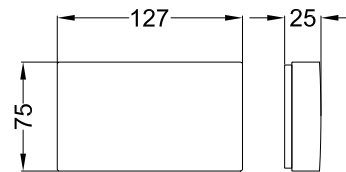
Connections - 2 x power output



Dimensions (mm) PFT25R with 0...10 V output



Dimensions (mm) PFT25R with 4...20 mA output



		Item no.
Humidity & temperature transmitter PFT25K as duct sensor		
Output 1: Temperature -30...0...+50 °C		
Output 2: Customer-specific presetting required!		
Housing: pastic ABS light grey, protection class IP 65 according EN 60529, tube stainless steel		
Accessories: mounting flange		
Output: 2 x 0...10 V, 3-wire technology		7390
Supply voltage: 15...30 Vdc or 24 Vac		
Output: 2 x 4...20 mA, 2-wire technology		7391
Supply voltage: 13...30 Vdc		
Humidity & temperature transmitter PFT25A as outdoor sensor		
Output 1: Temperature -30...0...+50 °C		
Output 2: Customer-specific presetting required!		
Housing: plastic ABS light grey, protection class IP 65 according EN 60529, tube stainless steel		
Accessories: wall bracket		
Output: 2 x 0...10 V, 3-wire technology		7392
Supply voltage: 15...30 Vdc or 24 Vac		
Output: 2 x 4...20 mA, 2-wire technology		7393
Supply voltage: 13...30 Vdc		
Humidity & temperature transmitter PFT25R as room sensor		
Output 1: Temperature -30...0...+50 °C		
Output 2: Customer-specific presetting required!		
Output: 2 x 0...10 V, 3-wire technology		7394
Supply voltage: 15...30 Vdc or 24 Vac; Housing: plastic 72 x 72 mm		
Output: 2 x 4...20 mA, 2-wire technology		7395
Supply voltage: 13...30 Vdc; Housing: plastic 72 x 72 mm		
Special lenght L1		72193
Customer-specific presetting required!		
Special configuration of measured variables to output 2		7399
Customer-specific presetting of output 1 & output 2 are required!		

HUMIDITY

Date: 04.03.16