

# Temperature sensor Galltec TPC active

Compact sensor with fixed connected cable



## Description

- The temperature humidity sensor series „xP“ are compact sensors in stick version with fixed connected cable.
- The relative humidity is measured by a capacitive sensing element and the value will be placed at the output as analogue signal.
- The temperature measurement is made by a P100-resistor (1/3 DIN).
- The signal is available as an analogue output as well.
- The sensors are obtainable as single temperature probe or as combined sensor for temperature and humidity measurement.

## Specifications

Characteristic	Description / Value
Measurement principle	Pt100 1/3 DIN acc. DIN EN 60751
Measurement range	-30 ... +70 °C
Slope (Data Logger Meteo-40)	100
Offset (Data Logger Meteo-40)	-30
Accuracy	± 0.2 K (-27 ... +80 °C)
Additional error	± 0.007 K/K (<10 °C, >40 °C)
<b>Operating range</b>	
Ambient temperature	-40 ... +80 °C
Minimum air speed (across sensor)	≥ 0.5 m/s
<b>Electrical data</b>	
Output signal	0 ... 1 V
Operating supply	6 ... 30 VDC
Current Consumption @ 12 V DC	2 mA

Characteristic	Description / Value
<b>General</b>	
Connection	7-pol plug for shielded cable
Dimensions	155 x Ø 20 mm
Weight	approx. 0.1 kg
Protection Sensor	IP 30
Protection Electronic	IP 65
Protection Coupling	IP 67
Manufacturer	Galltec

## Sensor connection diagram

Sensor	Plug No.	Pin	Ammonit Colour	Cable	Wire	Meteo-40 Voltage	Analog	Supply Sensor
Temperature Output Voltage	3		white			Ax		
Ground	2		blue			Bx		
Supply	4		red					9 ... 30 VDC*
Ground	1		black					Main Ground

\*Supply voltage for usage with Meteo-40 data loggers

Cable type: LiYCY 4 x 0.25 mm<sup>2</sup>

Connect the shield logger-sided to Ground (GND)

### Temperature Sensor TP

