LinPicco™ A420 Basic
# Capacitive Humidity Module Analog 4…20mA

Product

Within the markets Measurement, HVAC, Building and Control, and Home Appliances/White Goods, humidity modules are required which are capable to translate the signals of the robust IST humidity sensors into commonly used standards and provide a calibrated sensor signal.

In their current form factor the modules of the linPicco series deliver. Contrary to existing humidity modules or fully integrated solutions the linPicco series unifies advantages of both worlds, avoiding their disadvantages: The high precision measurement of humidity with discrete sensors (high stability due to wide active sensor area) combined with calibrated and linearized output signal.

Advantages

- Calibration free
- Ready to use
- Precise humidity measurement
- Drift stable thanks to wide sensor area
- Available with optional temperature sensor
- Smallest dimensions
- Mechanical robust and eaysy to integrate
- Different output options on request
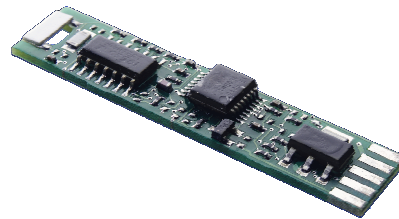
Technical Data

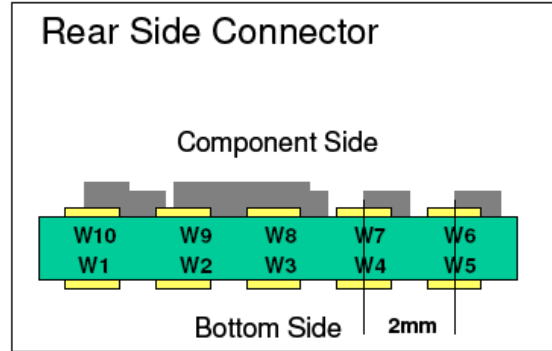|	
Sensor Type:	P14 SMD
Measurement principle:	Capacitive humidity sensor
Mechanical dimensions:	W=10 x L=47 x T=2.8mm
Humidity measurement range:	0 ... 100 % RH
	(max. DP = 85 deg C)
Operating temperature range:	- 25 ... +85 deg C
Operating voltage:	8...32 Volts DC= (recommended (RLoop+300Ω)x25mA)
Current consumption:	4…20 mA (two wire operation)
Output signal:	4…20 mA (0...100% RH)
Temperature sensor	optional PT100 or NTC, loop-through, not stuffed
	for SMD or throughole mounting
Storage temperature range:	-40...+100 deg C/ @ max. 95% RH non condensing
Accuracy:	< 3% RH
	(15 ... 85% RH @ 23 deg C)
Terminal connectors:	Soldering terminals for VCC, Analog Out 4..20mA,
	loop-through of optional temperature sensor

IST

INNOVATIVE SENSOR TECHNOLOGY

LinPicco™ A420 Basic
Capacitive Humidity Module
Analog 4…20mA

HUMIDITY

FLOW

TEMPERATURE

Pin Designation

W1	reserved
W2	reserved
W3	reserved
W4	reserved
W5	PT100 opt.
W6	PT100 opt.
W7	Current Loop Return
W8	reserved
W9	reserved
W10	Current Loop Vcc +

Rear Side Connector

Component Side

W10	W9	W8	W7	W6
W1	W2	W3	W4	W5

Bottom Side   2mm

IST
INNOVATIVE SENSOR TECHNOLOGY

ISO 9001

V2.0-12/2004