



LinPicco™ Axxx Basic

Capacitive Humidity Module

Analog

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

- Applicable in measuring probes, industrial, air-conditioning, energy management
- Integrated Pt-1000 temperature sensor + P14 humidity sensor
- Calibrated
- Precise humidity measurement
- Excellent long term stability
- Various analog output signals
- RoHs conform

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
Operating temperature range:	- 25 ... +85 deg C
Temperature sensor	Pt-1000, loop-through
Storage temperature range:	-40...+100 deg C / at max. 95 % RH non condensing
Accuracy:	< 3 % RH (15 ... 85 % RH at 23 deg C)

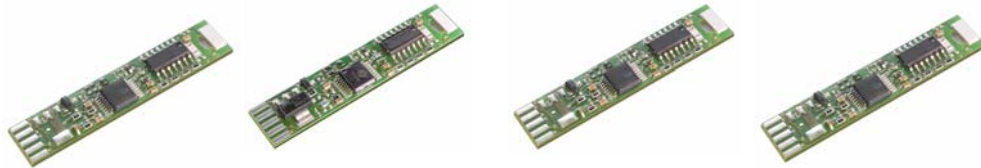


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ISTAG, Industriestrasse 2, CH-9630 Wattwil, Switzerland, Phone (+)41 71 987 73 73, Fax (+)41 71 987 73 77
e-mail info@ist-ag.com, www.ist-ag.com



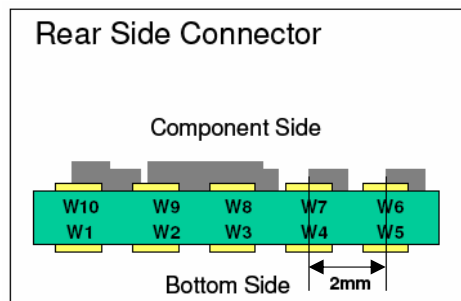
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	A0545	A420	A01	A05
Operating voltage:	4.5...5.5 Volt DC stabilized	8...32 Volt DC (recommended 8...15 Volt, max. load resistor 300Ω)	7...32 V DC (recommended 7...9 Volt)	7...32 V DC (recommended 7...9 Volt)
Current consumption:	< 3 mA	4...20 mA (two wire operation)	< 3 mA	< 3 mA
Output signal (0...100% RH):	10...90% of operating voltage	4...20 mA	0...1 Volt	0...5 Volt

Pin Designation

	A0545	A420	A01	A05
W5	PT1000	PT1000	PT1000	PT1000
W6	PT1000	PT1000	PT1000	PT1000
W7		Current Loop Return		
W8	GND		GND	GND
W9	Analog Output		Analog Output	Analog Output
W10	Vcc +	Current Loop Vcc +	Vcc +	Vcc +



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IST AG, Industriestrasse 2, CH-9630 Wattwil, Switzerland, Phone (+)41 71 987 73 73, Fax (+)41 71 987 73 77
e-mail info@ist-ag.com, www.ist-ag.com

All mechanical dimensions are valid at 25°C ambient temperature, if not differently indicated. ■ All data except the mechanical dimensions only have information purposes and are not to be understood as assured characteristics. ■ Technical changes without previous announcement as well as mistakes reserve. ■ The information on this data sheet was examined carefully and will be accepted as correct; No liability in case of mistakes. ■ Load with extreme values during a longer period can affect the reliability.

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