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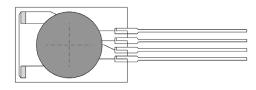
HYT 221 Digital Humidity and Temperature Module Optimal for critical application areas

Benefits & Characteristics

- Calibrated and temperature compensated
- High chemical resistance
- Wide humidity and temperature range
- Very stable at high humidity
- Mechanically robust

Illustration¹⁾

- Excellent humidity/temperature accuracy and stability
- I²C protocol (address 0x28 or alternative address)
- Very low drift
- Interchangeable without adjustments





1) For actual size, see mechanical dimensions

Technical Data

Operating temperature range:	-40 °C to +125 °C
Operating humidity range:	0 % RH to 100 % RH
Hysteresis:	< ±1 % RH
Linearity error:	< ±1 % RH
Temperature error:	0.05 % RH/K (0 °C to +60 °C)
Operating voltage:	2.7 V to 5.5 V
Current consumption (nominal):	< 22 µA at 1 Hz measuring rate; 850 µA max.
Current consumption (sleep):	< 1 µA
Digital interface:	I ² C, address 0x28 or alternative address
Operating voltage (limits):	-0.3 V to 6 V
Storage conditions:	-20 °C to +50 °C

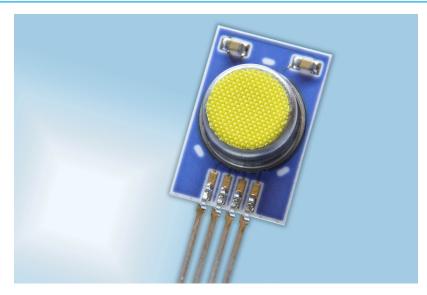
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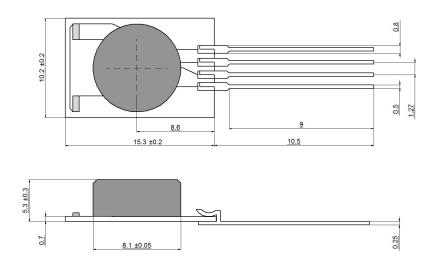
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	Humidity	Temperature
Accuracy:	±1.8 % RH at +23 °C (0 % RH to +90 % RH)	±0.2 K (0 °C to +60 °C)
Reproducibility:	±0.2 % RH	±0.1 K
Resolution:	0.02 % RH	+0.015 °C
Response time t ₆₃ :	< 10 s with membrane filter	< 10 s with membrane filter
Long-term drift:	< 0.5 % RH/a	< 0.05 K/a
Measuring principle:	Capacitive polymer humidity sensor	PTAT (integrated)

Product image



Mechanical Dimensions



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Pin Assignment

			4 3 2 1			
1	2	3	4			
SDA	GND	VCC	SCL			
Order Informati	on					
		HYT 221				
Order code		103923				
Former order code		150.00068				
Additional Electronics						
1.1.1.2%		Document name:				
LabKit:		DHHYTLabKit_E				
LCD Module:		DHLCD-Modul_E				
Additional Doci	uments					
		Document name:				
Application Note:		AHHYTM_E				

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