

HYT 939 Digital Humidity and Temperature Module Optimal for highly sophisticated, industrial applications

Benefits & Characteristics

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

- Excellent humidity/temperature accuracy and stability
- I²C protocol (address 0x28 or alternative address)
- Very low drift
- Interchangeable without adjustments
- Pressure-resistant version up to 16 bar upon request

Illustration¹⁾



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	
Hystoresis.		
Temperature error:	0.05 % RH/K (0 °C to +60 °C)	
Operating voltage:	2.7 V to 5.5 V	
Current consumption (nominal):	$<$ 22 μ A at 1 Hz measuring rate; 850 μ A max.	
Current consumption (sleep):	< 1 μΑ	
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	
	Humidity	Temperature
Accuracy:	±1.8 % RH at +23 °C	±0.2 K (0 °C to +60 °C)
,	(0 % RH to 90 % RH)	``````````````````````````````````````
Reproducibility:	±0.2 % RH	±0.1 K
Resolution:	0.02 % RH	0.015 °C
Response time t ₆₃ :	< 10 s with metal mesh filter	< 10 s with metal mesh filter
Long-term drift:	< 0.5 % RH/a (at +23 °C and	< 0.05 K/a
5	30 % RH to 70 % RH - laboratory conditions)	
Measuring principle:	Capacitive polymer humidity	PTAT (integrated)
	sensor	

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Product image



Mechanical Dimensions - HYT 939



Mechanical Dimensions - HYT 939p



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