novasina

TECHNICAL DATA SHEET
nSens-HT-EIH
(Heated element)

Heated Electrolytic high precision humidity measurement for condensing environment



Digital humidity / temperature sensor based on electrolytic-resistive measurement technology. With NTC temperature sensor.
Heated sensor allows drift free and stable measurement in condensing environment.

Ideal for all applications that requires high precision, fast response time and long term stability in high humidity environment.

Communication based on nSens-Bustechnology. Sensor can quickly be exchanged to another nSens and is compatible with all nSens components (cables, transmitters, handhelds etc)

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Technical data

Description	**nSens-HT-EIH** Electrolytic humidity and NTC temperature measurement		
Measuring range	Humidity	0 ... 100% rH (Ideal for >75% rH)	
	Temperature	-20 ... +80°C	
Accuracy incl. reproducibility and hystereses	Humidity*	15 ... 30°C -20 ... 60°C	typical +/- 0.8% rH typical +/- 1.2% rH
	Temperature	0 ... +60°C -20 ... +0°C	typical +/- 0.2K typical +/- 0.3K
Drift	Humidity	typical <1%/ year	
Calibration Points	Humidity	13 points complete measuring range	
	Temperature	2 points complete measuring range	
Communication	digital (nBus Bussystem)		
Housing material	PVDF black		
Mechanical protection	nCap-PS Polyethylen Silberoxid Filter		
Operating temperature	-20 to +80°C (Sensor heating effective from -20 to 60°C)		
Storing temperature	0 to +60°C (non condensing)		
Chemical durability	Sensor and housing durable against H_2O_2, NH_3 up to 1%.		

* The humidity accuracy refers to the nominal values of Novasina humidity standards, which refer to the Greenspan Report.

Dimension

