

Produkt	nSens-HT-ENS Fühler			novasina The Art of Precision Measurement
Dokument	Technical data sheet			Novasina AG CH-8853 Lachen
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nSens-HT-ENS: Electrolytic high precision humidity / temperature measurement

Digital humidity / temperature sensor based on electrolytic-resistive measurement technology. With NTC temperature sensor.

Ideal for all applications that requires high precision, fast response time and long term stability. Ideal also for high humidity environment due to linear response without hysteresis.

Sensor is Silicon-Free.

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

Art. Nr. 260 1171 (nSens-HT-ENS)



Technical data

Description	nSens-HT-ENS Electrolytic humidity and NTC temperature measurement		
	Measuring range	Humidity	0 ... 100% rH
	Temperature	-25 ... +80°C	
Accuracy incl. reproducibility and hystereses	Humidity*	15 ... 30°C 0 ... 50°C	typical +/- 0.5% rH typical +/- 0.8% rH
	Temperature	0 ... +65°C -20 ... +80°C	typical +/- 0.1K typical +/- 0.2K
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 All materials are silicon free		
Mechanical protection	nCap-PS Polyethylen Silberoxid Filter		
Operating temperature	-25 bis +80°C		
Storing temperature	-10 bis +60° C (non condensing)		
Chemical durability	Sensor and housing durable against H ₂ O ₂ , NH ₃ up to 1%.		

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

