

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)

Art. Nr. 2601933 (nSens-HT-EIH)



Technical data

Description	nSens-HT-EIH Electrolytic humidity and NTC temperature measurement		
Measuring range	Humidity	0 ... 100% rH (Ideal for >75% rH)	
	Temperature	-20 ... +60°C	
Accuracy incl. reproducibility and hystereses	Humidity*	15 ... 30°C	typical +/- 0.8% rH
		-20 ... 60°C	typical +/- 1.2% rH
	Temperature	0 ... +60°C	typical +/- 0.2K
		-20 ... +0°C	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 +60°C		
Storing temperature	0 to +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.

Dimension



Connectivity options / required accessories:

Transmitters for process automation and monitoring systems

nlink-AnalogIP	2 Analog Signal Output 0/4 - 20mA or 0/2-10V	IP67 protection
nlink-AnalogEC	2 Analog Signal Output 0/4 - 20mA or 0/2-10V	Electrical cabinet installation
Quantadat	4 Analog Signal Output 0/4 - 20mA or 0/2-10V Optional with 2 Relays	IP54 LCD Display
nlink-Modbus	Digital Modbus RTU / RS485	IP67
nlink-USB	USB connection for single calibration software	nSoft-Cal
nlink-USB Pro	USB connection for multi sensor calibration software and datalogger	nSoft-Cal Pro
nlink-USB Smart	USB-C Connection for Smartphones	Android App for measurement and logging available

Handheld devices / Datalogger

ClimMate	Handheld device with short term logger.	complete set in case with accessories
Datalog30	Long Term datalogger for 1-4 external nSens-HT probes	requires nlink-UMB

Windows PC and Android calibration options

nSoft-Cal	PC Software for single nSens calibration	Requires USB cable nlink-USB
nSoft-Cal PRO	PC Software for multi sensor calibration and logging	Requires USB cable nlink-USB-PRO
nSens Mobile	Android App for measurement and calibration	Requires USB cable nlink-USB-SMART (USB-C)