High accurate wireless climate sensor

For measuring temperature and relative humidity (RH), the Wireless Value DLT-nSens is the most accurate in the range. For measurement, this sensor uses electrolytic measurement technology from Swiss company Novasina. This allows it to measure the relative humidity to an accuracy of 0.5% RH. The calibration data are contained in the measuring probe, which can be exchanged or disconnected for calibration if required.

Communication with the Base Station takes place via the licence-free 868 MHz frequency band; this allows long distances to be covered reliably. The large internal storage of this sensor ensures that no data is lost, should the connection to the Base Station be lost for any reason. In the Online Portal, the measurement results from this sensor can then be used for monitoring and analysis.

Features

· Accurate and wireless sensing
· Battery life up to 10 year
· Compatible with all WiSensys Base Stations
· 1.000 metre range (line of sight)

Applications

· Agriculture
· Climate monitoring
· Pharma & Lab
· Industrial

Specifications

· Ability to buffer 10,000 measurements
· Programmable measuring interval
· Attractive ABS enclosure
· Wall-mountable
· Easy to add sensors to operational system
· User-replaceable battery
· Unique network ID to avoid interference with other wireless systems

Sensor values are sent by the paired Base Station to:

· Wireless Value Online Portal (LAN or mobile carrier)
· Wireless Value Online Portal (On premises)
· MODBUS network (IP or RS485)
· SensorGraph via serial interface or LAN

wirelessvalue

High accurate wireless climate sensor

Model	wireless module with measurement probe of Novasina
Type	temperature and relative humidity
Sensortype	**exchangeable measuring probe**, digital

Measurement range

Temperature	-20 °C to +80 °C
Humidity	0 % - 100 %

Measurement accuracy

Temperature	± 0,1 °C from 0 °C tot 60 °C, otherwise ± 0,2 °C
Humidity	0,5% RH from 0 tot 80% RH; otherwise ± 2% RH

Measurement resolution

Temperature	0,1
Humidity	0,1

Measurement interval	Configurable between 1 second and 255 minutes, default 2 minutes
Operating limits	-20 °C to +80 °C
Power supply	1 AA 3,6 V lithium battery
Battery lifetime	up to 10 years with a sample interval of 5 minutes
Memory	10.000 measurements
Radionorm	EN 300 220
Frequency	868 - 870 MHz
Legislation	RED, CE
Range	1.000 meter free line of sight
Housing class	IP65
Color	matt black
Dimensions	105 (l) x 70 (w) x 34 (h) mm, excl. wall mount
Weight	93 g (excluding battery and novasina sensor)
Configuration	SensorGraph or Wireless Value Online Portal

Ordering options

Housing options	no
External antenna	no
Pressure relief	no
External power supply	no