

## 176 A QUANTUM LEAP IN THE WORLD OF ACCURATE MEASUREMENT

## **Product description**

#### QuantaDat Transmitter

This modular designed transmitter ,with multi sensor technology, is used as a display and signal output unit with 4 sensor channels and 4 analogue outputs. This allows the management of 4 measurement points by only 1 transmitter. The sensor identification is made automatically and the channels can be assigned and configured using the onboard menu.

The integral climatic processor (Mollier chart) enables display and output of values such as dew point temperature, absolute humidity, specific enthalpy, mixing ratio etc. An RS-485 interface is integrated as standard. Bus interfaces and relay switches can be assembled with modular configuration.

#### nSens probe

An integral component of the system is the digital nSens-HT humidity/temperature and nSens-T temperature sensor which work over the whole measurement range with high accuracy and linear response characteristic. The calibration data is stored direct onto the sensor. The verification/calibration is performed by PC using the nSoft-CAL software. These plug-in probes are quickly replaced on site and the newly calibrated system may be put back into use again quickly, maintaining highest accuracy.



## <u>YOUR ADVANTAGES:</u>

## Multisensor technology

Transmitter manages several sensors

## Unique measurement accuracy

+/- 0.5% RH and +/- 0.1K

# Process optimal measurement technology

for stable & energy saving processes

## Ideal measurement characteristics for linear & hysteresis free control over the whole measurement range

## 15 — 59 10 — 50 5 — 41 0 — 32 -5 — 23

### Characteristics

## QuantaDat transmitter

- Multisensor-Technology with 4 sensor channels
- 4 configurable analogue output signals
- Integrated climatic parameter processor
- Simulation function for fixed value output
- Graphical display with LED backlight
- Easy configuration by user-friendly device menu
- Simple Installation and set up

### nSens probe

- High measuring accuracy
- · Linear response
- Digital sensor with calibration data storage
- Software for verification and calibration by PC

### **Applications**

- Clean Rooms
- · HVAC plants
- Paper-/textile industry
- · Meteorological stations
- · Greenhouses
- Ripening chambers
- Combustion- and drying-processes
- Warehouses / storage units
- Calibration labs
- · Test benches
- Plant engineering & construction

and many more...

More information on the back side

°C -20 --- -4 °F

Probe for transmitter

Measurement accuracy

No. of calibration points

Operating temperature

Storage temperature

Measurement range

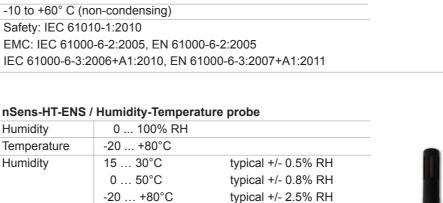
incl. reproducibility

and hysteresis

Housing material

Sensor protection

technical data subject to change wiithout prior notice



13 points over whole measurement range2 points over whole measurement range

typical +/- 0.1K

typical +/- 0.2K

Probe for transmitter	nSens-T-NBS / Temperature probe		
Measurement range	Temperature	-20 +80°C	
Measurement accuracy	Temperature	0 +70°C	typical +/- 0.1K
incl. reproducibility		-20 +80°C	typical +/- 0.2K
and hysteresis			
No. of calibration points	2 points over whole measurement range		
Housing material	PVDF black		
Sensor protection	nCap-E plastic protection cap		
Operating temperature	-20 to +80°C		
Storage temperature	-10 to +60° C (non-condensing)		

nCap-PS polyethylene silver oxide filter

-10 to +60° C (non-condensing)

0 ... +70°C

-20 ... +80°C

#### **Accessories**









nSens-Cable available in various lengths including mounting material

Temperature

Temperature

PVDF black

-20 to +80°C

Humidity

nSoft-CAL PC-calibration software