

# High Temperature Humidity- / Dew Point Sensor AFT - 350



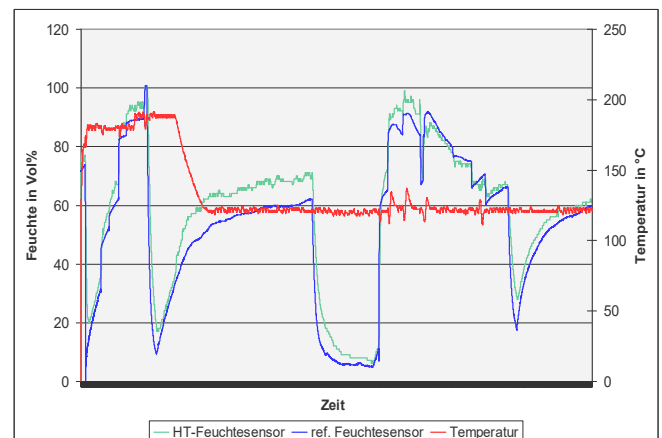
## Description

High temperature humidity sensor suitable for process temperatures up to 350°C. Measuring of absolute humidity, dew point and process temperature. The robust sensor tip is completely sealed and allows to be used in polluted environment applications. No filter or maintenance for sensitive element or mirror required. Custom specific-/OEM versions for volume quantities on request available.

## Features

- Measures absolute humidity or dew point
- Temperature measuring
- Measuring direct in processes up to 350 °C
- Condensation without destructive effects
- Sealed metal measuring tip
- No sensitive element or mirror
- Contamination resistant - maintenance free
- No filter required

## Humidity - Temperature - Characteristics



## Applications

- Drying systems
- Baking ovens
- Ceramic dryers
- Kilns — tunnel kilns
- Food industry
- Animal feed production
- Cement industry

### Information and Sales

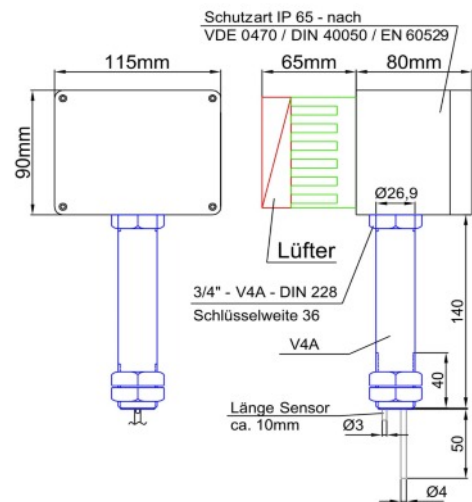
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# High Temperature Humidity- / Dew Point Sensor AFT - 350

## Technical data

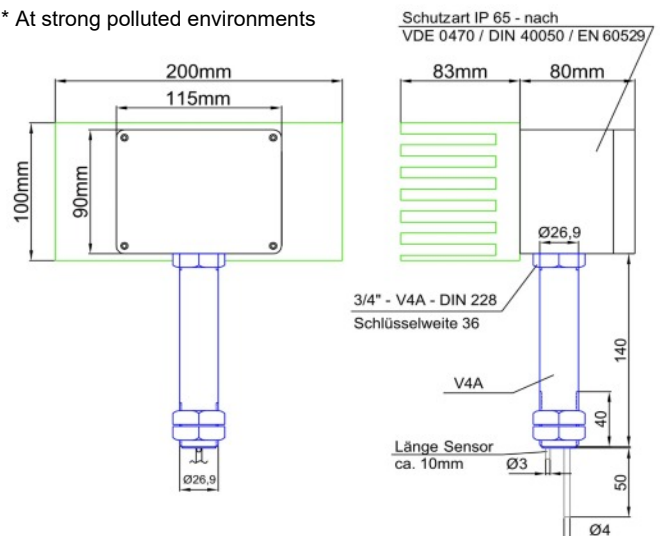
Measuring range humidity <sup>1)</sup>	20 ... 100 Vol% @ t > 100 °C
Tolerances humidity	at 20 Vol%: ± 3.5% at 90 Vol%: ± 1.5%
Response time (t <sub>90</sub> )	
at increase from	20 ... 100 Vol%: ≤ 10s
at decrease from	100 ... 20Vol%: ≤ 60s
Measuring range dew point temperature <sup>1)</sup>	40 ... 100 °C
Tolerances dew point temperatures	± 5%
Measuring range temperature	0 ... 350 °C
Tolerances temperature	0.5 ° ± 0.75 % of MV
Stabilization time after switch-on	approx. 10 min
<b>Data valid for the following process conditions</b>	
- flow velocities ≤ 0.5 m/s	
- pressure 1,023.15 hPa	
Outputs	
Humidity/Dew Point <sup>1)</sup>	4 ... 20 mA, Load ≤ 600 Ω, short circuit protected 0 ... 10 V optional
Temperature	4 ... 20 mA, Load ≤ 600 Ω short circuit protected 0 ... 10 V optional RS 485 interface
Operating temperature	
Sensor tip	0 ... 350 °C
Electronics	-25 ... 60 °C
Supply voltage	12 VDC
Current consumption	8.5 A
Electrical connection	Plug in connector
Dimensions measuring tip	
- Length	140 mm + 50 mm
- Diameter	26,9 mm / 3mm / 4mm
Material	
Electronic case	Plastics
Humidity/DP-tip	Copper, nickel-plated
Temperature tip	stainless steel V4A, 1.4301
Protection class	
Measuring tip	IP 67
Electronics	IP 65
1) Measuring range either humidity or Dew Point To be specified when ordering	

## Dimensions A - with active cooling



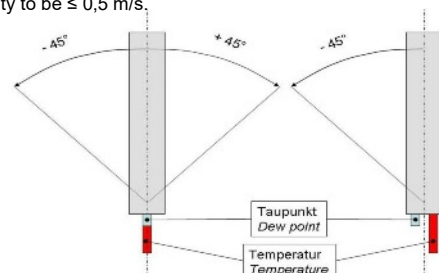
## Dimensions B - with passive cooling \*

\* At strong polluted environments



## Mounting positions

- Sensor to be mounted with sensor elements top down.
- Tilting angle maximum 45° as shown in sketch.
- Flow velocity to be ≤ 0,5 m/s.



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