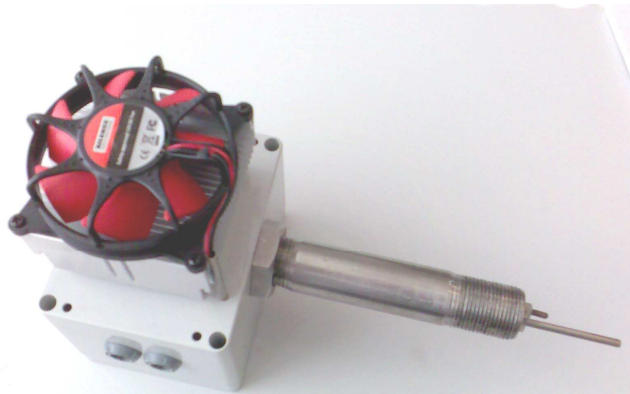


High Temperature Humidity Sensor AFS - HT 350



Sensor with active cooling

Features

- ◆ Absolute humidity measuring
- ◆ Temperature measuring
- ◆ Direct placement in process room
- ◆ Sealed metal measuring tip
- ◆ Contamination resistant
- ◆ Maintenance-free
- ◆ Easy mounting

Applications

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

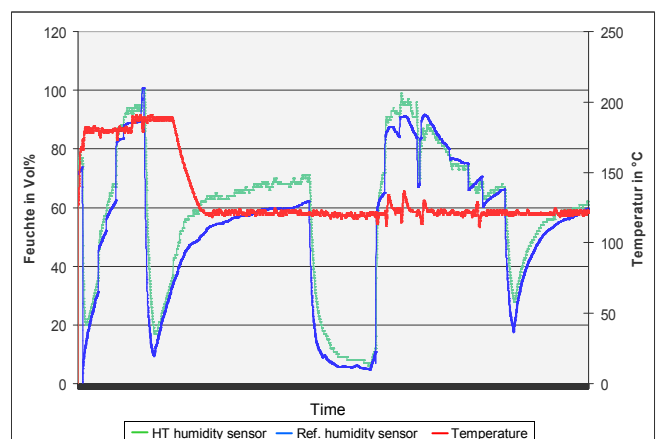
Description

High temperature humidity sensor suitable for process temperatures as high as 350°C. Measuring of absolute humidity as well as the process temperature.

The humidity sensor works on the dew point principle based on a stable thermal system. The robust sensor tip is completely sealed and allows to be used in polluted environment applications. If required easy cleaning is therefore possible.

Two version, with active and passive cooling respectively are available. Passive cooling is recommended to be selected at polluted environments.

Humidity - Temperature - Characteristics



Information and Sales

T.M.S. • Laerchenweg 17b • D-78112 St. Georgen / Germany
 Tel.: +49 7724 858 4243 • Fax +49 03212 858 4244
 Email: info@technologymarketingsupport.de

Manufacturer

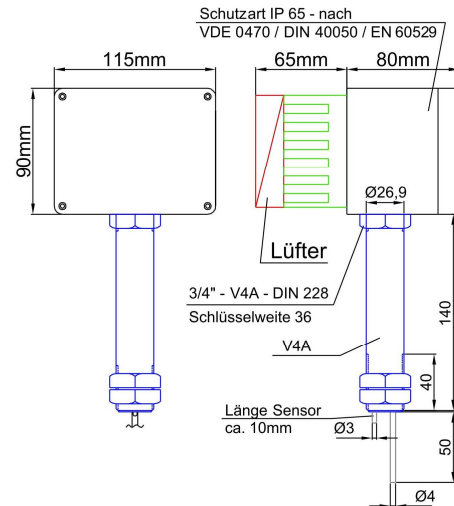
Vereta GmbH • D-37574 Einbeck / Germany
www.vereta.com

High Temperature Humidity Sensor AFS - HT 350

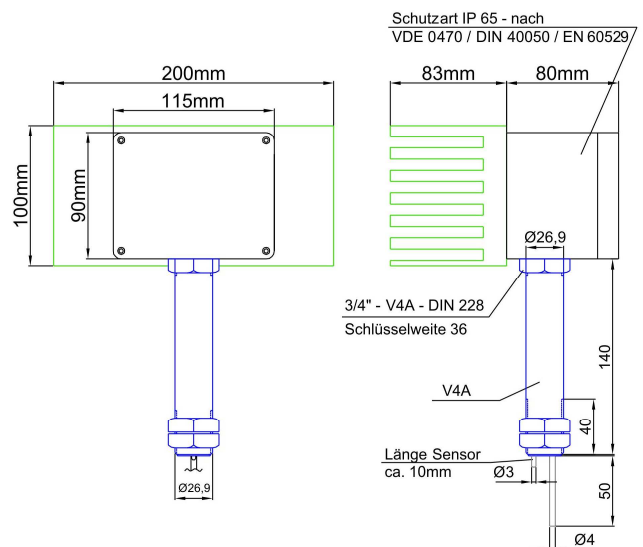
Technical data

Measuring range humidity	0 ... 100 Vol% @ t > 100 °C
Tolerances humidity	at 20 Vol% ± 3.5% at 90 Vol% ± 1.5%
Response time (t ₉₀) humidity	at increase from 20 ... 100 Vol%: ≤ 10 s at decrease from 100 ... 20 Vol%: ≤ 60 s
Stabilization time after switch-on	Approx. 10 min
Measuring range temperature	0 ... 350 °C
Tolerances temperature	± 0.5 ° ± 0.75% of MV
Operating temperature	Sensor tip 0 ... 350 °C Electronics 5 ... 60 °C
Outputs	Humidity 4 ... 20 mA, load ≤ 600 Ω 0 ... 10V optional, load ≥ 600 Ω, short circuit protected Temperature 0 ... 10V load ≥ 600 Ω, short circuit protected RS 485 interface
Supply voltage	12 VDC
Current consumption	8.5 A
Electrical connection	Terminal block
Dimensions measuring tip	Length 140 mm + 50 mm Diameter 26.9 mm / 3 mm / 4mm
Material	Housing plastic Humidity tip Copper, nickel plated Temperature tip V4A, 1.4301
Protection class	Tip IP 67 Electronics IP 65

Dimensions A - with active cooling

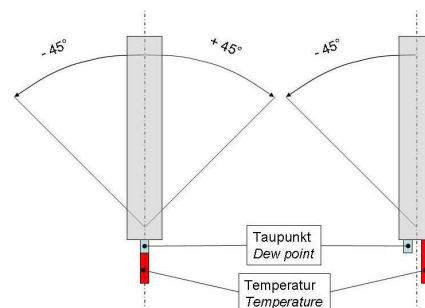


Dimensions B - with passive cooling



Mounting positions

Sensor to be mounted with sensor elements top down.
Tilting angle maximum 45° as shown in sketch.



Information and Sales

T.M.S. • Laerchenweg 17b • D-78112 St. Georgen / Germany
Tel.: +49 7724 858 4243 • Fax +49 03212 858 4244
Email: info@technologymarketingsupport.de

Manufacturer

Vereta GmbH • D-37574 Einbeck / Germany
www.vereta.com