

6740 Series

Humidity Monitoring in Compressed Air



Applications

- ▶ Continuous monitoring of compressed air systems
- ▶ Check drying efficiency in refrigeration and desiccant compressed air dryers to -60°C
- ▶ Check dew point in process, control and compressed air
- ▶ Check condensate deposit in refrigeration dryers
- ▶ Monitors desiccant dryers
- ▶ Monitors blow-by in liquid ring compressors

6740 Series

The 6740 Series incorporates a $\pm 1\%$ maintenance free humidity probe ideal for checking humidity measurements for validation of critical environments. It's rugged, compact and protected by a waterproof aluminum housing. The accuracy of this probe has been tested and proven time and again in worldwide laboratory tests. The probe is equipped with a patented capacitive polymer %RH sensor.

Benefits

- ▶ **Maximum reliability**
 - Long-term stability
 - Demonstrably correct indication of measurement ranges and data
 - Highest manufacturing quality
- ▶ **Calculation of the most important trace humidity variables**
 - e.g. $^{\circ}\text{Ctpd}$, $^{\circ}\text{Ctd}$ atmospheric, ppm_v
- ▶ **Calculation protocol**
- ▶ **Convenient operation**
 - Via the display menu without additional aids
 - Without display via the internal interface and scaling adapter software
 - Local 1-point calibration
 - Easy adjustment of limit values



Model 6744 with display

Model 6742 without display



STANDARD FOR ALL MODELS

- Dew Point Range:** -60 to 30°C [-76 to 86°F]
- Pressure Range:** -1.0 to 50 bar [0-700 psia]
- Accuracy:** ±2°C at -5°C (typically)
- Interface Output:** 4 to 20 mA (electrically isolated)
- Power Supply:** 24 VDC ±10%
- Application Temperature:** 0 to 50°C [32 to 122°F]
- Storage Temperature:** -20 to 70°C [-4 to 158°F]
- Mechanical Connection:** 1/2" NPT, stainless steel screw-in thread
- Electrical Connections:** Flange plug/coupler socket M12 x 1
- Calibration:** Via 4 internal buttons
- Protection Class:** IP65
- CE:** Confirms with EN 50081-2, EN 50082-2
- Housing Dimensions:** Length 7.5"
Height 1.75"

MODEL 6744

- Display:** 3 digit LED display, flashes if limit value exceeded
- Relay output:** 1 change-over contact, voltage free [230 VAC, 1A]
- Resolution:** 1°C

- Analog output 4 to 20 mA (2-wire)
- 2 limit signal outputs (optional)
 - Pre and main alarm as floating contact
 - 2 LEDs displaying the alarm status

- Bright 7-segment display (on Model 6744)
- Housing can be rotated by 350°

The long-term stable humidity sensor with protocolled precision calibration at residual humidity -40 °Ctpd



- Ultra-easy menu operation via buttons
 - Select the humidity variable
 - Change the scaling
 - Set alarms, incl. hysteresis
 - Carry out local 1-point calibration
 - Test analog signal and alarm outputs
 - Call up historic min./max. values

- The right process connection
 - NPT 1/2"
 - Pressure-tight up to 50 bar

