

6740 Series

Humidity Monitoring in Compressed Air

The 6740 Series incorporates a $\pm 1\%$ accuracy, 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.

Edgetech Instruments' services are performed in the USA at their modern, well-staffed, ISO/IEC 17025:2005 accredited, ISO 9001:2015 registered manufacturing facility. All recertifications and calibrations are traceable to NIST.

Applications

- Continuous monitoring of compressed air systems
- Checking drying efficiency in refrigeration and desiccant compressed air dryers to -60°C
- Checking dew/frost point in process control and compressed air
- Checking condensate deposit in refrigeration dryers
- Monitoring desiccant dryers
- Monitoring blow-by in liquid ring compressors

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: Dew/frost point, temperature, PPMv 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



Edgetech Instruments

ISO 9001:2015 Registered

ISO/IEC 17025:2005 Accredited

Technical Specifications

Standard for All Models:

Dew Point Range:

- -60°F to 30°C (-76°F to 86°F)

Pressure Range:

- -1.0 to 50 bar (0 to 700 psia)

Accuracy:

- $\pm 2^{\circ}\text{C}$ at -5°C (typical)

Interface Output:

- 4 to 20 mA (electrically isolated)

Power Supply:

- 24 Vdc $\pm 10\%$

Application Temperature:

- 0°C to 50°C (32°F to 122°F)

Storage Temperature:

- -20°C to 70°C (-4°F 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 Class:

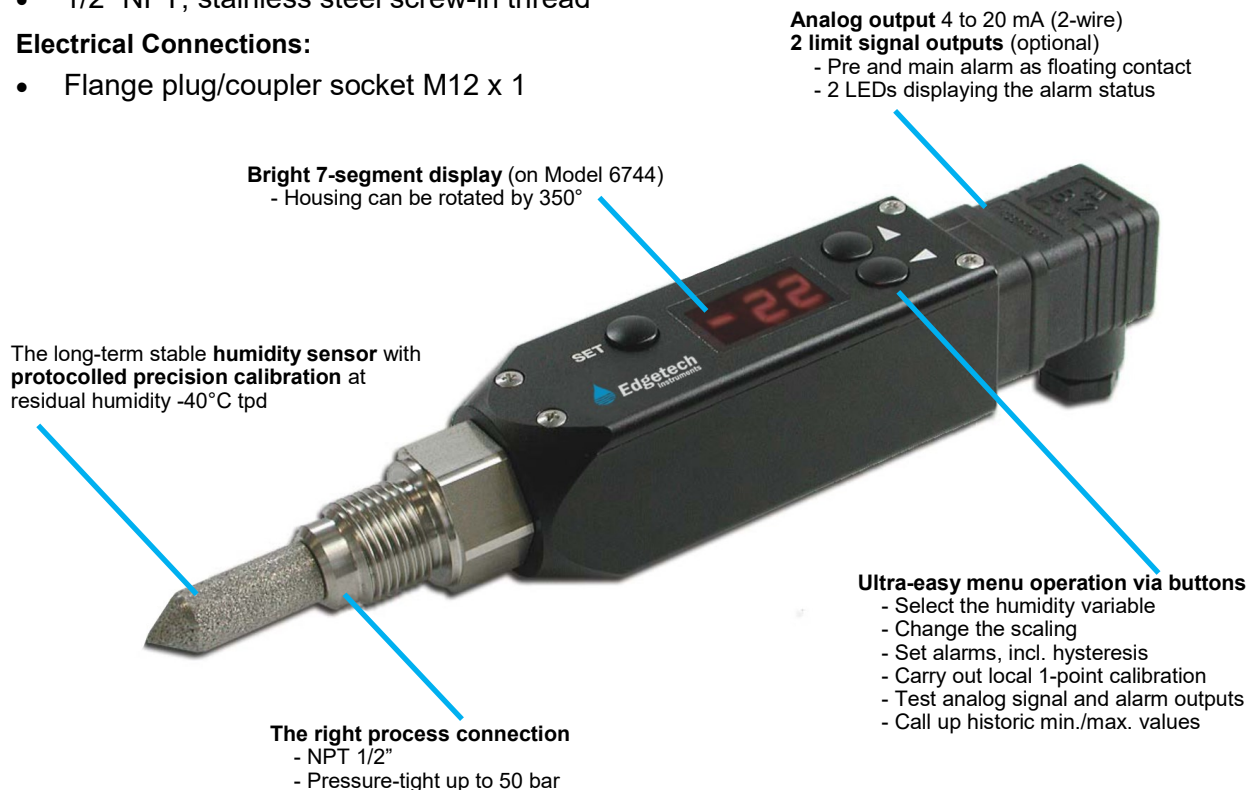
- Confirms with EN 50081-2, EN 50082-2

Housing Dimensions:

- Length 7.5"x Height 1.75"

Model 6744 Only:

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



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