Relative humidity, temperature measurement and dew point calculation
• Outstanding accuracy and repeatability
• Hygromer® IN-1 Humidity Sensor
• All metal construction
• Freely selectable and scalable analog outputs

THE HEAVY DUTY TRANSMITTER
INTRODUCING AIRCHIP DIGITAL TECHNOLOGY

INNOVATION IN HUMIDITY AND TEMPERATURE MEASUREMENT
The new HygroFlex7-series are equipped with sturdy metal housings and stainless steel probes for harsh industrial conditions. Based on AirChip3000 technology, this indicator achieves a degree of accuracy not seen before. Every transmitter can be used as a simulator with fixed values. This is a major advantage in system configuration and validation.

The HygroFlex7 transmitter offers, depending on the model, an application range of -100...200 °C. Thanks to its fire protection classification, the instrument is perfectly suited for industrial applications, is convincing in process monitoring and in environments such as building management. Subway and tunnel construction also benefit greatly from the services provided by the HygroFlex7.

**Housing**
- Robust industrial housing
- Ideal fire protection classification and degree of protection for your application
- All metal construction for wall, cable and duct versions
- Display of the measured values on a clear, backlit graphic display with trend indicators

**Output signals**
- Two freely selectable and scalable analog outputs
- Dew/frost point and moisture calculation
- 2-wire and 3/4-wire versions available
- Use as a simulator for system validation
- UART service interface

**AirChip3000**
- Compensates humidity and temperature over 30,000 reference points
- 2,000 data point memory
- Dew/frost point calculation
- Active alarming and information
- ASIC (Application Specific Integrated Circuit), microcontroller and EEPROM on one chip

**Fast response and precise measurement**
- Fixed mounted stainless steel probes for wall and duct mounts, cable probes with Teflon cables
- Superb system accuracy
APPLICATIONS

The HygroFlex7 transmitters are ideal in harsh industrial environments. Whether in industrial applications, building management systems, underground railways, tunnelling etc. there is hardly a field today in which exact measurement of humidity, temperature and dew/frost point may be ignored. It is ultimately the measuring task at hand that defines the instrument that best meets your needs.

OUTPUTS OF THE HYGROFLEX7-SERIES

The high flexibility of the HygroFlex7-series allows the user to freely select the output parameters and the scale of each output. All you need to do is enter the desired settings using HW4 software (0...1 V, 0...5 V, 0...10 V, 0...20 mA, 4...20 mA).

HF7 wall mount
Building management system, Undergound railways and tunnelling

HF7 cable mount
Industrial processes in harsh environments, building management systems

HF7 duct mount
Industrial processes in harsh environments, air delivery and exhaust equipment

HF72-series
Schematic 2-wire type (current signal)

HF73-series
Schematic 3-wire type (current signal)
TECHNICAL INFORMATION

Probe Output Signal.
When connected to a PC the HygroFlex7-series probes can be rescaled with different ranges to suit the application. It is also possible to assign the internally calculated dew or frost point value to one of these outputs.

Sensor Diagnostics.
The intelligence of AirChip3000 technology enables advanced sensor diagnostics. Should the sensors deviate from factory defined parameters, measurement values can be compensated automatically and a digital alarm triggered.

Interested in further information (special applications, order codes)? A complete and up-to-date overview of our HygroFlex7-series is available on our web site www.rotronic.com.