Relative humidity, temperature measurement and dew point calculation
Outstanding accuracy and repeatability
Hygromer® IN-1 humidity sensor
Auto-diagnostics and automatic correction
Freely selectable and scalable analog outputs

THE ADVANCED HVAC TRANSMITTER.
INTRODUCING AIRCHIP DIGITAL TECHNOLOGY.

INNOVATION IN HUMIDITY AND TEMPERATURE MEASUREMENT

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- Outstanding accuracy and repeatability
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- Auto-diagnostics and automatic correction
- Freely selectable and scalable analog outputs
SPECIFY THE BEST:
HYGROFLEX3 ADVANTAGES AT A GLANCE.

The new HygroFlex3-series is the latest development in HVAC transmitters for relative humidity, temperature and dew point. Based on AirChip3000 technology, the instruments achieve a degree of accuracy not seen before.

In combination with advances in sensor technology and integration, the HygroFlex3-series provides superb precision and state-of-the-art functionality, taking humidity, temperature and dew point measurement to a whole new level of performance and reliability (< 2 %rh / 0.3 K).

**Highly versatile**
- One or two selectable and scalable analog outputs
- Analog outputs assignable to relative humidity, temperature or dew point
- 2-wire or 3/4-wire systems available

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

**Fast response and precision measurement**
- By decoupling the Pt100 temperature sensor from the probe, thermal response is significantly improved
- Use of Pt100 Class A sensors for maximum accuracy
HYGROFLEX3-SERIES

APPLICATIONS.

The HygroFlex3-series is ideal for all applications where exact measurement of humidity and temperature is of decisive importance. The transmitters can be used in a variety of fields for heating, ventilation and air conditioning applications, greenhouses, museums, warehouses, libraries, railway stations and for climate control in office buildings. Thanks to the exceptional long-term stability of the sensors and auto-diagnostics, the transmitters are both service-friendly and reliable and will save you time and money.

HF3 duct version
For use in ventilation shafts

HF3 wall version
For use in technical equipment rooms

HF3 space version
For use in offices and rooms where appearance is important

OUTPUTS OF THE HYGROFLEX3-SERIES.

The high flexibility of the HygroFlex3-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.

HF32-series
2-wire technology

HF33-series
3/4-wire technology

Interested in further information (special applications, order codes)? A complete and up-to-date overview of the HygroFlex3-series is available on our web site www.rotronic.com.
TECHNICAL INFORMATION.

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.

Data Logging and Alarm Generation.
Up to 2,000 measurement values can be stored in the HygroFlex3 transmitter; the user is able to configure the measurement interval, set alarm limits, scale the output signal and download data using optional ROTRONIC HW4 software. The output signals of the HF can be programmed to take a fixed value in the event of a major sensor failure.

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