# HygroFlex3-series

### SHORT INSTRUCTION MANUAL

### Digital transmitter for humidity & temperature: Wall Version

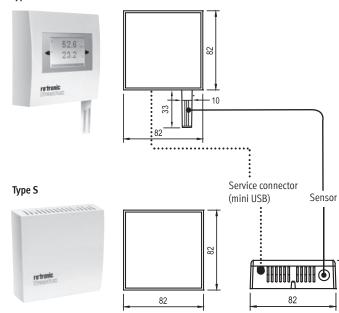
Congratulations on your purchase of the new state-of-the-art HygroFlex3-series transmitter. Please read these short instructions carefully before installing the device.

### **General description**

The HygroFlex3-series devices are universal transmitters for transmission of humidity and temperature measurements. These short instructions are limited to a description of the main functions and installation of the device. The detailed instruction manual can be found on the internet at: **www.rotronic.com** 

#### **Dimensions / Connections**

Type R



### Mechanical installation

## Caution:

In order to get correct measurement values, the sensor must be instaled in a way that the air flows around the sensor.

- 1. Remove the montage plate by drilling out the screws.
- 2. Mount the mounting plate to the wall by using 2 or 4 screws.

### Electrical installation

### Supply voltage / Technology

Туре	Supply voltage V+	Output			
2- or 2x2-wire					
HF320-	1028 VDC: 10 V + (0.02 x load)	420 mA			
3 / 4-wire					
HF331	1840 VDC / 1328 VAC	020 mA			
HF332	1840 VDC / 1328 VAC	420 mA			
HF333	640 VDC / 528 VAC	01 V			
HF334	1040 VDC / 828 VAC	05 V			
HF335	1840 VDC / 1328 VAC	010 V			

### Caution:

Wrong supply voltages and excessively high loading of the outputs can damage the transmitter.

### Terminal configuration / Connection diagrams

The type is defined using the table «Supply voltage / Technology» to then use the following connection diagrams:

#### 2- or 2x2-wire / HF320 0 1 2 3 4 $\bigcirc$ T-OUT H-OU" Ue (= 4...20mA 4...20mA 🔎 TIT 0 G 0 Terminal Cohomotico Description

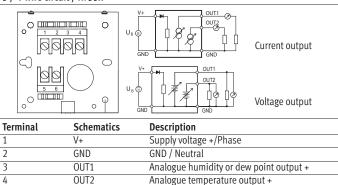
Terminat	Schematics	Description
1	V+	Supply voltage +
2	T– OUT	Analogue temperature output +
3	V+	Supply voltage +
4	H– OUT	Analogue humidity or dew point output +
5&6	Not connected	

### 3 / 4-wire circuit / HF33x

Not connected

5&6

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### Programming

The basic settings of the devices are made in the factory according to your order. The transmitters are adjusted in the factory and therefore do not need to be checked and readjusted during installation. The devices can be started immediately after installation.

### Display

In models with LC display the value can be read directly.



### Measurement-End-Indicators

- ▲ Increasing value (End value is not reached yet)
- ▼ Decreasing value (End value is not reached yet)
- Constant value (End value is reached)

### Scaling / Adjustment / Firmware update

The following settings can be made with the help of the HW4 software and either the service cable AC3006 or AC3009:

- new scaling of the outputs
- adjustment
- firmware update

You can find a detailed description in the manual that you can download from our web site at: www.rotronic-humidity.com

Humidity:	0100 %rh	
Temperature:	Type S: -4060 °C , without display	
	Type R: –1060 °C, with display	
Accuracy:	Type R: ± 1,0 %rh / Type S: ± 2 %rh, ± 0.3 K @ 23°C	
Protection:	IP20	
Outputs:	Current or voltage signals depending on order code,	
	UART service interface	

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