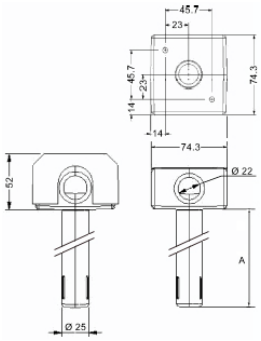
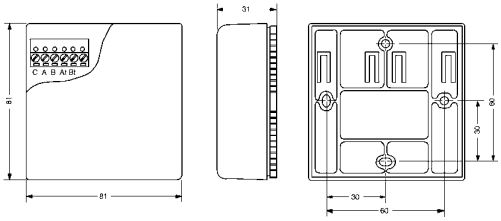
Series HT-9000 Electronic Humidity Transmitter

Humidity Sensors and Transducers

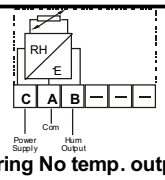
Series HT-9000



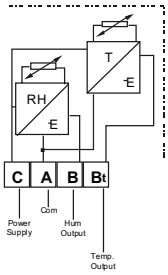
Dimensions Duct Sensor
A=153 mm for HT-90xx-UD1
A=230 mm for HT-90xx-UD2



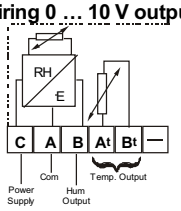
Dimensions Room Sensor HT-90xx-URW



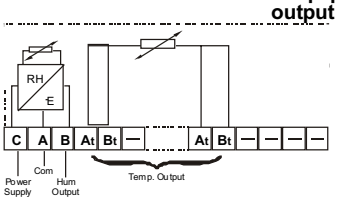
Wiring No temp. output



Wiring 0 … 10 V output



Wiring NTC K2, A99, Pt1000 temp. passive output



Wiring Pt100 output

Description

The Johnson Controls humidity transmitter is based on a new "state of the art" humidity sensing element. It measures humidity over the entire range of 0 to 100% RH (non condensing) and has a wide operating temperature range.

Its fast response, reliable long-term performance makes this transmitter well suited for refrigeration and HVAC installations.

This range also includes models with an integrated temperature sensing element.

It is recommended to use the humidity transmitter with Johnson Controls controllers such as the TC/SC/DC/DX-9100 series and System 27 Nova/MS series or with other systems having compatible input and output voltages.

The basic principle of this humidity transmitter is a polymer capacitance type element in which capacitance changes proportionally to a change in humidity.

The sensing element incorporates a protective coating which resists the effects of surface contamination.

Features

- All models with electronic board for universal supply voltage
- Duct models with longer rod and with flange for duct insertion adjustment
- Senses over the entire range of 0 to 100%RH (non condensing)
- Transmitter can resist many hostile environments
- Temperature measurement option
- Polymer humidity sensing element is integrated onto a chip
- Duct and room enclosures are available

F

Series HT-9000 Electronic Humidity Transmitter Selection Table

Humidity range	Temperature range	Enclosure IP30	Humidity Output	Temperature Output	Supply Voltage	Type-Model Number	
0 to 100% RH	-	Room	0 to 10 VDC	-	12 to 30 VDC 24 VAC ± 15 %	**HT-9000-URW**	
	0…40°C			0…10 VDC		**HT-9001-URW**	
	0…60°C			0…10 VDC		**HT-9002-URW**	
	0…40°C			NTC K2		**HT-9003-URW**	
	0…60°C			Pt100		**HT-9005-URW**	
	0…60°C			Pt1000		**HT-9006-URW**	
	0…60°C			A99		**HT-9009-URW**	
	-	Duct Probe lenght 153 mm		-		**HT-9000-UD1**	
	0…40°C			0…10 VDC		**HT-9001-UD1**	
	0…60°C			0…10 VDC		**HT-9002-UD1**	
	0…40°C			NTC K2		**HT-9003-UD1**	
	0…60°C			Pt100		**HT-9005-UD1**	
	0…60°C			Pt1000		**HT-9006-UD1**	
	0…60°C			A99		**HT-9009-UD1**	
	-	Duct Probe lenght 230 mm		-		**HT-9000-UD2**	
	0…40°C			0…10 VDC		**HT-9001-UD2**	
	0…60°C			0…10 VDC		**HT-9002-UD2**	
	0…40°C			NTC K2		**HT-9003-UD2**	
	0…60°C			Pt100		**HT-9005-UD2**	
	0…60°C			Pt1000		**HT-9006-UD2**	
	0…60°C			A99		**HT-9009-UD2**	