Description

The HC-67x3 Series TrueRH™ Humidity Controllers come in both wall or duct mount packages. These attractively styled controllers offer ease of installation and application flexibility. The patented All-Polymer™ humidity sensor construction improves resistance to chemical corrosion.

The HC-67x3 functions as a proportional humidity controller.

The output is jumper-selectable Reverse Acting (RA) or Direct Acting (DA), along with an adjustable setpoint and proportional band.

Refer to the *HC-67x3 Series TrueRH Humidity Controllers Product Bulletin (LIT-216265)* for important product application information.

Figure 1: HC-6703-4N00W Wall Mount Humidity Controller



Figure 2: HC-6703-6N00P Duct Probe Humidity Controller



Features

- TrueRH technology features patented improvements in circuitry and calibration techniques
- All-Polymer humidity sensor provides accurate and reliable humidity sensing with the patented sensing element
- jumper-selectable RA or DA output: 0 to 10 or 6 to 9 VDC maximizes control and application flexibility
- RH adjustable setpoint range and proportional band allows local setpoint adjustment and provides application versatility
- all plastic material for duct probe improves thermal performance and complies with Underwriters Laboratories Inc.® (UL) flammability ratings for plenum use

Figure 3: Wall Mount Humidity Controller Dimensions, in. (mm)

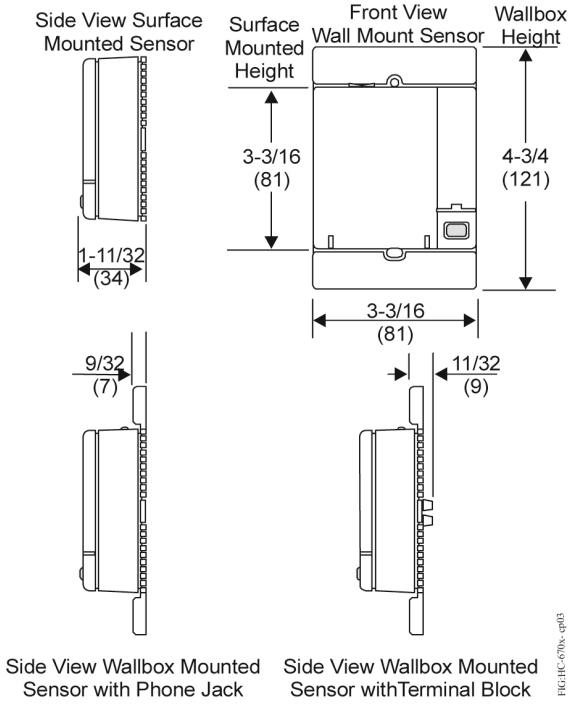

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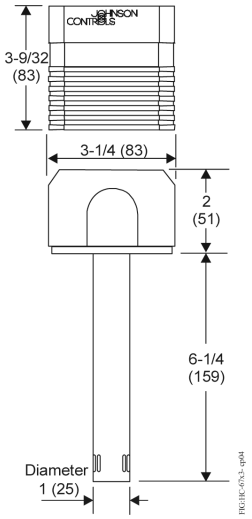
Figure 4: Duct Probe Humidity Controller Dimensions, in. (mm)



Repair Information

If the HC-67x3 Series TrueRH™ Humidity Controllers fails to operate within its specifications, refer to the *HC-67x3 Series TrueRH Humidity Controllers Product Bulletin (LIT-216265)* for a list of repair parts available.

Selection Charts

Table 1: Selection Chart

Code Number	Description
HC-6703-4N00W	Wall Mount
HC-6703-6N00P	Duct-Probe

Accessories

Table 2: Accessories (Wall Mount Humidity Controllers Only)

Code Number	Description
ACC-DWCLIP-0	Drywall Spring-Clip Mounting Kit (10 per package)
ACC-INSL-0[1]	Foam Pad Kit for Wallbox Mounting (10 per package)
ACC-INSL-1[1]	Foam Pad Kit for Surface Mounting (10 per package)
GRD10A-608	Plastic Guard with Baseplate and Mounting Ring
T-4000-119	Allen-Head Adjustment Tool (order in multiples of 30)
TE-67D0-601[2]	Door Replacement Kit with Johnson Controls® logo (order in multiples of 10)
TE-67D0-602	Door Replacement Kit without logo (order in multiples of 10)

1 These foam pads help prevent drafts from entering the unit through the wall, and make installation easier when mounting on an uneven surface.
2 Contains 10 original style and 10 new style doors.

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Technical Specifications

Table 3: HC-67x3 Series TrueRH Humidity Controllers technical specifications

HC-67x3 Series TrueRH Humidity Controllers		
Power Requirements	14 to 30 VDC at 10 mA or 20 to 30 VAC, 50/60 Hz at 15 mA with no load, Class 2	
Control Action	Jumper selectable, direct or reverse (factory set for reverse acting)	
Output Range	Jumper selectable, 0 to 10 VDC (factory set) or 6 to 9 VDC; 5 k ohm minimum load impedance	
Sensor Characteristics	Element Material:	All-Polymer
	Sensing Range:	0 to 100% RH, noncondensing
User Adjustments	Setpoint:	Adjustable from 20 to 80% RH
	Proportional Band:	Adjustable from 2 to 20% RH
Temperature Coefficient	-0.1 to 0.05% RH/°C at 5°C (41°F) to -0.07 to -0.21% RH/°C at 65°C (149°F)	
Electrical Connections	3-position screw terminal block	
Ambient Operating Conditions	32 to 122°F (0 to 50°C) 0 to 100% RH, noncondensing; 85°F (29°C) maximum dew point	
Survival Operating Conditions	-22 to 140°F (-30 to 60°C) 0 to 100% RH, noncondensing; 85°F (29°C) maximum dew point	
Ambient Storage Conditions	-40 to 176°F (-40 to 80°C) 0 to 100% RH, noncondensing; 85°F (29°C) maximum dew point	
Materials	Wall Mount:	White plastic enclosure and mounting base for surface orstandard U.S. wallbox mounting, including hardware
	Duct Probe:	Dark blue plastic cover, housing, and probe
Dimensions	Wall Mount (H x W x D):	3.20 x 3.20 x 1.34 in. (81 x 81 x 34 mm)
	Duct Probe (H x W x D):	3.28 x 3.25 x 8.27 in. (83 x 83 x 210 mm)
	Probe (L x D):	6.25 x 0.98 in. (159 x 25 mm)
Shipping Weight	0.7 lb (0.3 kg)	
Agency Compliance	Duct Probe Material:	94-5V flammability rated per UL 94

Product warranty

This product is covered by a limited warranty, details of which can be found at www.johnsoncontrols.com/buildingswarranty.

Software terms

Use of the software that is in (or constitutes) this product, or access to the cloud, or hosted services applicable to this product, if any, is subject to applicable end-user license, open-source software information, and other terms set forth at www.johnsoncontrols.com/techterms. Your use of this product constitutes an agreement to such terms.

Patents

Patents: https://jcipat.com

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