

HC-67x3 Series

# **TRUERH™ Humidity Controllers**

#### 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.

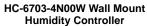
The output is jumper-selectable Reverse Acting (RA) or Direct Acting (DA), along with an adjustable setpoint and proportional band.

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

#### **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







HC-6703-6N00P Duct Probe Humidity Controller

#### **Selection Charts**

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

### **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.

**Accessories (Wall Mount Humidity Controllers Only)** 

Code Number	Description
ACC-DWCLIP-0	Drywall Spring-Clip Mounting Kit (10 per package)
ACC-INSL-0 <sup>1</sup>	Foam Pad Kit for Wallbox Mounting (10 per package)
ACC-INSL-1 <sup>1</sup>	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 <sup>2</sup>	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

- 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.

#### **Technical Specifications**

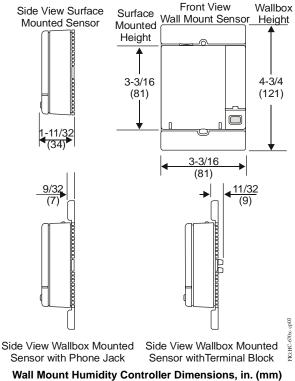
HC-67x3 Series TrueRH Humidity Controllers				
Power Requirements	14 to 30 VDC at 10 mA o	14 to 30 VDC at 10 mA or 20 to 30 VAC, 50/60 Hz at 15 mA with no load, Class 2		
Control Action	Jumper selectable, direct	Jumper selectable, direct or reverse (factory set for reverse acting)		
Output Range	Jumper selectable, 0 to 1	Jumper selectable, 0 to 10 VDC (factory set) or 6 to 9 VDC; 5 k ohm minimum load impedance		
Sensor Characteristics	Element Material: Sensing Range:	All-Polymer 0 to 100% RH, noncondensing		
User Adjustments	Setpoint: Proportional Band:	Adjustable from 20 to 80% RH Adjustable from 2 to 20% RH		
Temperature Coefficient	-0.1 to 0.05% RH/°C at 5	-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	3-position screw terminal block		
Ambient Operating Conditions	32 to 122°F (0 to 50°C) 0 to 100% RH, nonconde	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: Duct Probe:	White plastic enclosure and mounting base for surface or standard U.S. wallbox mounting, including hardware Dark blue plastic cover, housing, and probe		
Dimensions	Wall Mount (H x W x D): Duct Probe (H x W x D): Probe (L x D):	3.20 x 3.20 x 1.34 in. (81 x 81 x 34 mm) 3.28 x 3.25 x 8.27 in. (83 x 83 x 210 mm) 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		

The performance specifications are nominal and conform to acceptable industry standards. For applications at conditions beyond these specifications, consult the local Johnson Controls office.

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## HC-67x3 Series TrueRH™ Humidity Controllers (Continued)



3-9/32 (83) 3-1/4 (83) 2 (51) 6-1/4 (159) Diameter 1 (25)

Duct Probe

**Duct Probe Humidity Controller Dimensions, in. (mm)**