

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-6703-4N00W Wall Mount Humidity Controller



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 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.

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 or standard 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

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

