

TRUERH™ Series HH-6705 Duct Humidistat

The HH-6705 Series Duct Humidistat is typically mounted downstream from a humidifier, and turns the humidifier off (contact opens) when the setpoint is reached. Setpoint is adjustable from 30 to 90% Relative Humidity (RH). To reduce equipment cycling, the HH-6705 Series turns the humidifier back on (contact closes) when the humidity in the duct falls 5% below the setpoint.



Figure 1: HH-6705-9N0GP Duct Humidistat

Features and Benefits		
<input type="checkbox"/>	TRUERH	Circuitry and calibration techniques for which patent is pending
<input type="checkbox"/>	All-Polymer™ Humidity Sensor	Patented sensing element provides accurate and reliable humidity sensing with improved resistance to chemical corrosion
<input type="checkbox"/>	30 to 90% RH Adjustable Setpoint	Covers most application requirements, including humidification and dehumidification
<input type="checkbox"/>	5% Fixed Differential	Reduces humidification equipment cycling
<input type="checkbox"/>	Plastic Duct Probe	Improves thermal performance
<input type="checkbox"/>	Quick-mount, 2-screw Installation	Reduces installation time and simplifies retrofits

Product Overview

IMPORTANT: The HH-6705 Series Duct Humidistat is designed for use only as an operating control. Where failure or malfunction of the HH-6705 could lead to an abnormal operating condition that could cause personal injury or damage to the equipment or other property, other devices (limit or safety controls) or systems (alarm or supervisory) intended to warn of, or protect against, failure or malfunction of the HH-6705 must be incorporated into and maintained as part of the control system.

The HH-6705 Series Duct Humidistat has a relay contact that opens when setpoint is reached (as humidity increases), and closes at 5% RH below setpoint (as humidity decreases). The setpoint is adjustable from 30 to 90% RH.

Dimensions

See Figure 2 for the dimensions.

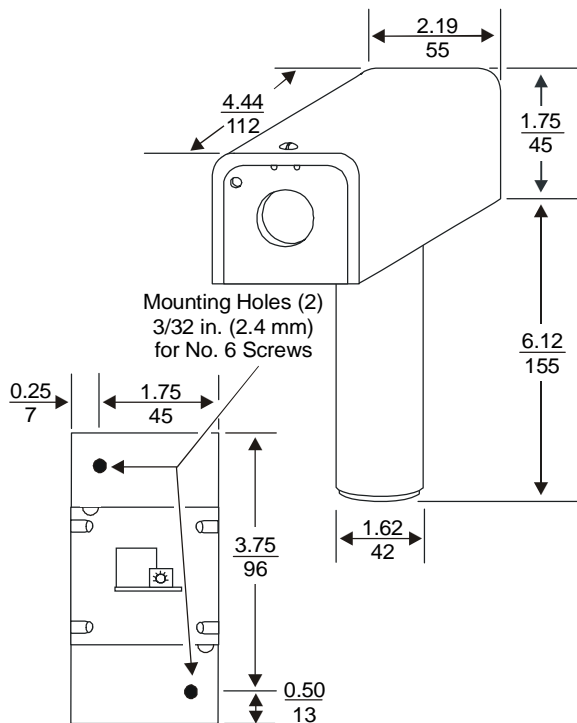


Figure 2: HH-6705 Dimensions, in. (mm)

Repair and Replacement

Field repairs must not be made to the humidistat. Refer to the *Ordering Information* section to order a replacement.

Ordering Information

Contact the nearest Johnson Controls representative to order a humidistat, and specify product code number HH-6705-9N0GP. (There are no accessories available.)

Notes

Specifications

Product	TRUE RH Series HH-6705 Duct Humidistat	
Power Requirements	20 to 30 VDC at 33 mA or 20 to 30 VAC, 50/60 Hz at 45 mA (1.35 VA maximum), Class 2	
Output	Single-Pole, Single-Throw (SPST), normally open relay contact Opens at setpoint on increasing RH Closes at 5% RH below setpoint on decreasing RH	
Relay Contact Rating	Maximum:	4 ampere at 24 VAC; pilot duty 42.4 VA at 24 VAC, Class 2
	Minimum:	100 mA at 5 VDC
Humidity	Element:	All-Polymer
	Setpoint:	Adjustable from 30 to 90% RH
	Sensing Range:	0 to 100% RH, non-condensing
	Differential:	Fixed 5% RH
Ambient Operating Conditions	32 to 122°F (0 to 50°C) 0 to 100% RH, non-condensing; 86°F (30°C) maximum dew point	
Survival Operating Conditions	-22 to 140°F (-30 to 60°C) 0 to 100% RH, non-condensing; 86°F (30°C) maximum dew point	
Ambient Storage Conditions	-40 to 176°F (-40 to 80°C) 0 to 100% RH, non-condensing; 86°F (30°C) maximum dew point	
Materials	Metal cover and housing with polymeric duct probe	
Dimensions	Overall (H x W x D):	4.44 x 2.19 x 7.87 in. (113 x 56 x 200 mm)
	Probe (D x L):	1.62 x 6.12 in. (41 x 155 mm)
Shipping Weight	1.5 lb (0.7 kg)	

The performance specifications are nominal and conform to acceptable industry standards. For application at conditions beyond these specifications, consult the local Johnson Controls office. Johnson Controls, Inc. shall not be liable for damages resulting from misapplication or misuse of its products.



Controls Group
507 E. Michigan Street
P.O. Box 423
Milwaukee, WI 53201

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www.johnsoncontrols.com