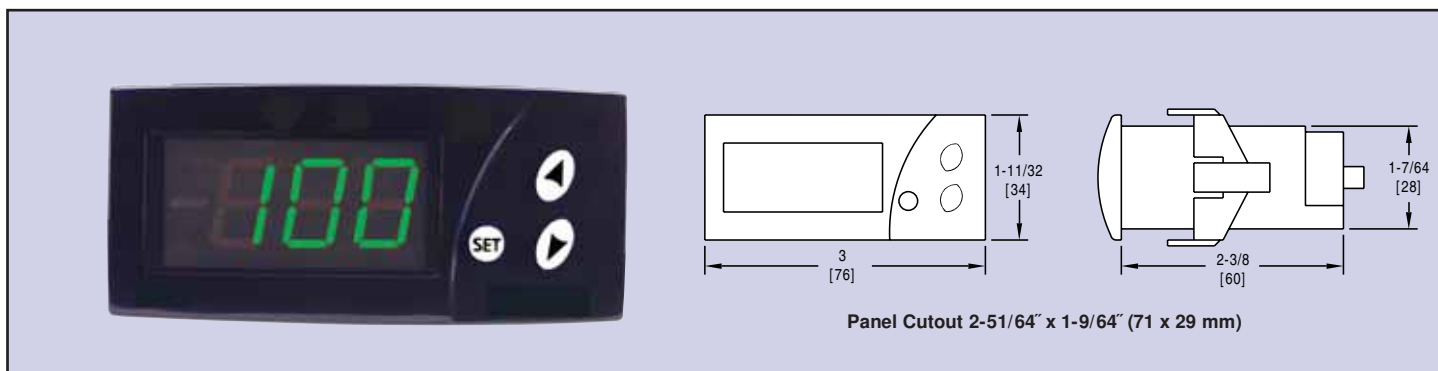




Series
HS

Humidity Switch

Programmable, 8 Amp Relay, 3-Digit Display



The microprocessor based Series HS Humidity Switch provides control for humidifying or dehumidifying. Relative humidity, output status, and error messaging can be viewed on the bright green LED. The switch features 9 user defined parameters including setpoint, hysteresis, control type, cycle time, and probe adjustment. Access to programming parameters can be locked for security purposes using the password protection feature. The Series HS includes a fitting clip for panel mounting, gasket, rear terminal cover, and instruction manual.

SPECIFICATIONS

Relative Humidity Range: 0 to 100% RH.
Input: 0 to 3V, 0 to 1V or 4-20 mA (depending on model) humidity probe not included.
Accuracy: $\pm 1\%$ RH.
Display: 3-digit, green, 1/2" (12.7 mm) digits.
Resolution: 1 digit.
Temperature Limits: 32 to 158°F (0 to 70°C).
Storage Temperature: -4 to 176°F (-20 to 80°C).
Output: 8 A SPDT relay @ 250 VAC resistive.
Horsepower Rating (HP): 1/3 HP.
Control Type: ON/OFF.
Power Requirements: 110 VAC or 230 VAC (Depending on model).
Memory Backup: Nonvolatile memory.
Weight: 2.3 oz (65 g).
Front Panel Rating: NEMA 4X (IP65).
Agency Approvals: CE, UR pending.

APPLICATIONS

HS Digital Humidity Switches are suitable for industrial chillers, environmental chambers, walk-ins and freezers, heat sealers, beer and wine chillers, mug frosters, coolers, display cases and cabinets, meat and produce storage, floral preservation, refrigerated transportation, laboratories, food service equipment, ovens and dryers, green houses, museums, and tobacco preservation.

MODELS

Model Number	Input Sensor	Supply Voltage
HS-311	0 to 3 V	110 VAC
HS-312	0 to 3 V	230 VAC
HS-111	0 to 1 V	110 VAC
HS-112	0 to 1 V	230 VAC
HS-411	4 to 20 mA	110 VAC
HS-412	4 to 20 mA	230 VAC

Accessories

THC-P Humidity Probe, 0 to 3 V output, 4 ft (1.5 m) cable

PARAMETERS

	Description	Units	Range
SP	Set Point	%	r1 to r2
r0	Differential or Hysteresis	%	1 to 99
r1	Lower Value Set Point	%	0 to r2
r2	Higher Value Set Point	%	r1 to 100
d0	Control Type (humidifying/dehumidifying)	Option	Hu/dH
c0	Min. Stop Time for Load	Minutes	0 to 59 min.
c1	Continuous Cycle Time	Hours	0 to 24 hr
Lc	RH value for 4 mA input	%	0 to 100
Hc	RH value for 20 mA input	%	50 to 100
P1	Probe Adjustment (shifting)	%	0 to 10
P2	Probe Type (0-1 V, 0-3 V, 4-20 mA)	Range	01/03/42
H5	Parameter Access code	Numeric	0 to 99