



HUMIDISTAT DUCT

Electro-mechanical Humidistat

The ACI Duct Humidistat utilizes a Polyga® bands of multi-synthetic fibers as it's sensing element to improve its moisture resistance. The sensor is water resistant and can be saturated without damage. The humidistat is used to sense the relative humidity level in air, and on/off single-stage control of humidifiers, dehumidifiers, compressors, solenoids, valves, relays, and other electrical equipment in commercial and industrial environments. The humidistats offer scaled setpoint knobs, external or internal options depending on model. External setpoint enclosures are rated to Nema 13(IP54), and internal setpoint enclosures are rated to Nema 4X(IP64). Recommended minimum duct diameter is 10" (256mm).

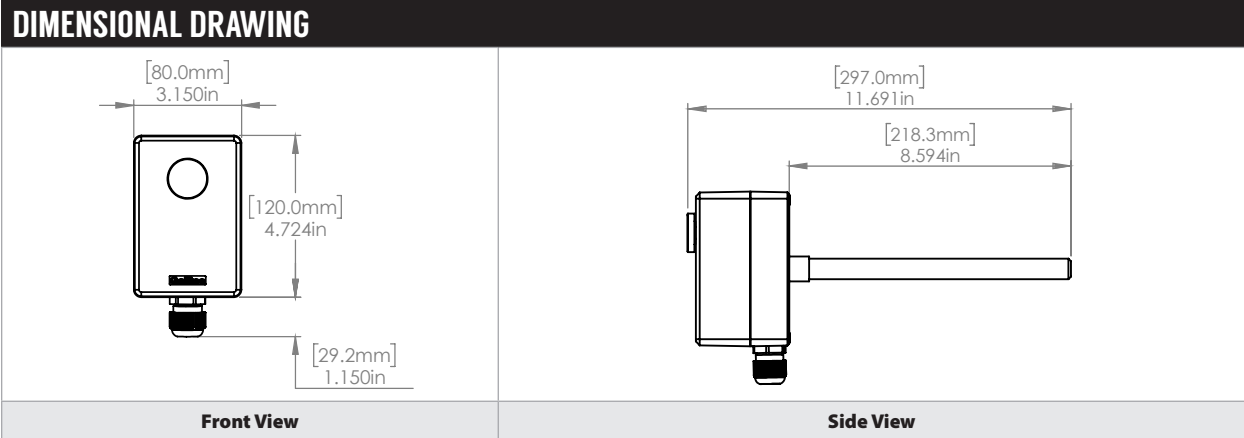
Applications: Humidification, Dehumidification, Supply / Discharge / Return Air, Economizers, Clean Rooms, Data Centers, Process Control, Schools, Hospitals, Office Buildings

The Duct Humidistat is covered by ACI's Two (2) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's website, workaci.com.

PRODUCT SPECIFICATIONS

RH Measurement Range:	0-100% RH
Operating RH Range:	30-100% RH
RH Condition:	Non-aggressive air
Sensor Element:	Polyga® bands of multi-synthetic fibers, water-resistant, washable, saturation without damage
RH Accuracy:	Above 50% RH: ± 3-3.5% RH Below 50% RH: ± 4.0% RH
Permissible Air Velocity (Maximum):	1575 ft/min (8 m/sec); with gauze protection: 2970 ft/min (15 m/sec)
Response Time:	< 120 sec for 63% step change, at 394 ft/min (2 m/sec)
Type of Control:	On/Off, single stage control, with (1) microswitch output
Stage Level/Setpoint:	30-100% RH
Hysteresis/Switching Differential:	4-5% RH, fixed
Microswitch Form:	SPDT
Maximum Contact Rating:	15A resistive @ 250 VAC 2A resistive @ 250 VDC 0.25A @ 250 VDC
Operating Temperature RH Range:	32 to 140°F (0 to 60°C), 0-95% RH, non-condensing
Storage Temperature Range:	-22 to 140°F (-30 to 60°C)
Enclosure Material:	ABS, fire-retardant
Enclosure Protection:	W/ External Setpoint: Nema 13(IP54) W/ Internal Setpoint: Nema 4X (IP64)
Probe Material:	High-grade steel, perforated, non-corroding
Cable Entry:	(1) M20 compression fitting, removable, hole fits 1/2 in conduit connector
Connections Wire Size:	Screw Terminal Blocks Max. 14 AWG (2.5 mm ²)
Product Dimensions:	(H) 4.73" (120 mm) x (W) 3.15" (80 mm) x (D) 2.84" (72 mm) Duct Probe: (L) 8.67" (220 mm) x (D) 0.63-0.79" (16-20mm)
Approvals:	CE
Product Weight:	1.6 lb (0.7 kg)





STANDARD ORDERING

Model #	Item #	Description
HG80	132831	Humidistat, Duct, External Setpoint Dial, SPDT, IP54
HG80I	150861	Humidistat, Duct, Internal Setpoint Dial, SPDT, IP64

ACCESSORIES ORDERING

Model #	Item #	Description
CH-VEL-GAUZE	-----	High velocity duct probe protector, used between 1,575 ft/min (8 m/sec) and 2,970 ft/min (15 m/sec)

