

SAFETY CONTROLS

DHL

DUCT HI-LIMIT HUMIDISTAT

DHL is used as High limit humidistat safety when humidifying in duct. It is suitable for steam or adiabatic humidification.

Control mode:
ON/OFF

Set point range:
15 to 95%RH

Long term stability:
+/-1.5%RH

Contacts type & rating:
NO & NC SPDT potential free contacts
maximum 5A at 24Vac or Vdc

Switching differential:
4%RH



DAP

DUCT AIR PROVING SWITCH

DAP is used as Air proving safety switch when humidifying in duct. It will prevent from operating humidifier in case there is no air flow.

Control mode:
ON/OFF

Set point range:
0.08 to 1.2in w.c. [20 to 300Pa]

Max pressure:
30in w.c. [7500Pa]

Contacts type & rating:
NO & NC SPDT potential free contacts
maximum 2A at 250Vac
or 1A at 30Vdc

Max Switching frequency:
6 cycles / min



FLS

FLOOR LEAK SWITCH

FLS is used to detect any water accumulation on the floor of a room or duct, it is used to prevent from any water damage.

Control mode:
ON/OFF

Supply voltage:
11 to 27Vac or Vdc

Max pressure:
30in w.c. [7500Pa]

Contacts type & rating:
NO & NC SPDT potential free contacts
maximum 1A at 24Vac or Vdc or 0.5A at
120vac

Power consumption
DC: 10mA typical, 30mA max
AC: 30mA typical, 70mA max



RH% SENSORS & CONTROLLER

DHS

DUCT RH% SENSOR

DHS is used as RH% sensor when humidifying in duct. It is suitable for steam or adiabatic humidification. It should be installed in returned air duct for best reading.

Range:
0-100%RH

Output:
standard 0-10Vdc
optional 4-20mA (suffix 420)

Supply voltage:
15 to 28Vac or 15 to 36Vdc

Accuracy:
 $\leq \pm 3\%RH$ (at 25°C, 20 to 80%RH)
optional $\leq \pm 2\%RH$

Hysteresis: $\leq \pm 1\%RH$

Response time: $\leq 10s$ (25°C)

Drift: $\leq \pm 0.5\%RH$



Options:
LCD display
Additional SPDT relays

RHS

ROOM RH% SENSOR

RHS is used as room RH% sensor. It is suitable for steam or adiabatic humidification.

Range:
0-100%RH

Output:
standard 0-10Vdc
optional 4-20mA (suffix 420)

Supply voltage:
15 to 28Vac or 15 to 36Vdc

Accuracy:
 $\leq \pm 3\%RH$ (at 25°C, 20 to 80%RH)
optional $\leq \pm 2\%RH$

Hysteresis: $\leq \pm 1\%RH$

Response time: $\leq 10s$ (25°C)

Drift: $\leq \pm 0.5\%RH$



Options:
LCD display
Additional SPDT relays

RHC

ROOM RH% CONTROLLER

RHC is used as room RH% sensor. It is suitable for steam or adiabatic humidification.

Range:
0-95%RH,

Humidification set point range:
10% RH to 90% RH

Supply voltage:
19 to 30Vac

Accuracy:
 $\pm 5\%RH$ (at 10 to 32°C, 20 to 95%RH)

