ROTRONIC – LEADING IN HUMIDITY MEASUREMENT

Humistat – Humidity Controller

SF65

- Well proven humidity sensor with exceptional durability and stability
- High accuracy and fast response over the full range of humidity
- Easy installation/replacement with base plate and plug-in sensor/electronics module
- Set point and dead band adjustment through access window
- Large LCD shows relative humidity or set point or dead band
- Maintenance interval of 1 to 2 years

QUALITY ISO 9001 rotronic ag MANAGEMENT

SWISS CALIBRATION

rotronic®
LEADING IN HUMIDITY MEASUREMENT

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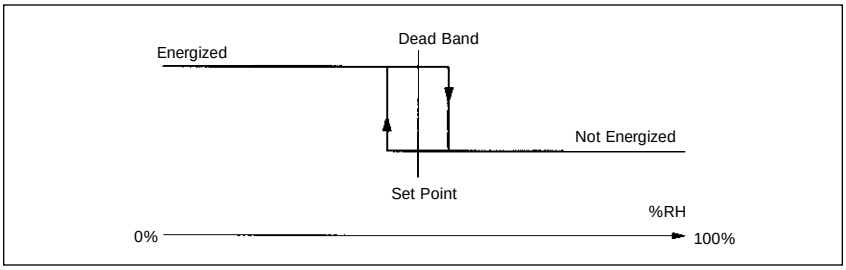
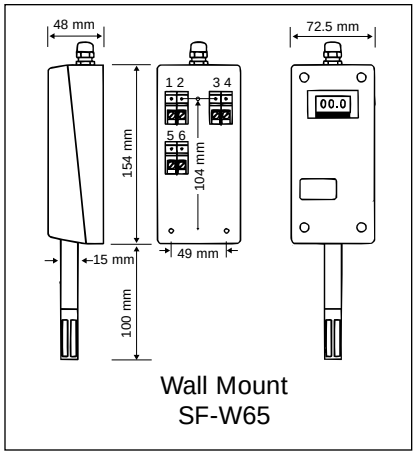
Specifications

Measuring Range	0..100 %RH
Operating Temperature	32..140˚F (0..60˚C)
Accuracy at 77˚F	±2%RH from 10..100%RH ±3%RH from 0 to 10%RH
Repeatability	±0.3%RH
Sensor Stability	±1%RH typical at 50%RH in 5 years
Relay Contacts	SPDT Single Pole Double Throw (common, normally closed, normally open) 24 VDC/24 VAC, 3A
L.C. Display	00.0 to 99.9
Analog Output	0..10 V = 0..100%RH (or 0..5 V = 0..100 %RH)
L.C. Display Modes	Measurement, Set Point or Dead Band selected with 3 position switch
Set Point	Adjustable from 10..95%RH (see diagram)
Dead Band	Adjustable from 1 to 5%RH
Power Requirements	24 VDC or 24 VAC ±10%
Case Protection	IP065

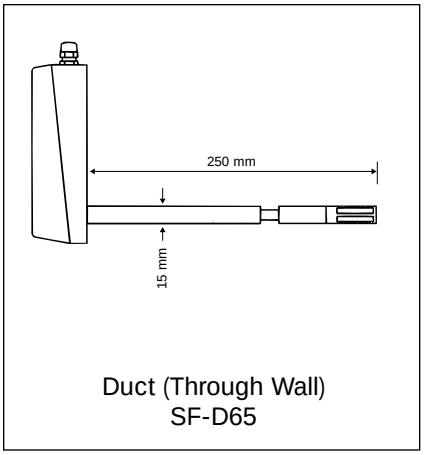
Operating Diagram



Mechanical Configurations



Wall Mount
SF-W65



Duct (Through Wall)
SF-D65

Installation

Here's How Simple It Is

Units are factory calibrated. Base plate and electronics are shipped in an individual carton for protection during shipment or storage.

1. Hole is drilled in duct or wall to clear the probe. Base plate is removed and mounted. Wires are connected.
2. Since no electrical circuitry exists in the base, the base can be mounted and wired during construction.
3. After final construction, electronic boards are just snapped into the base plate. Any electronics board can be installed with any base plate – no special matching is needed.

General Information

The SF65 Humistat is an on/off controller that can be used in conjunction with a humidifier or a dryer.

The SF65 series features the ROTRONIC HYGROMER® capacitive humidity sensor. This well proven sensor offers exceptional durability and stability in all kinds of environments. This fact is reflected in the ROTRONIC warranty...the best in the industry. Measurement accuracy and fast response are provided over the entire range of humidity conditions, even when the sensor is exposed to extremely high or low humidity over long periods of time. An electronic compensation circuit maintains the accuracy of humidity measurement at all temperatures.

Installation and maintenance are simple. The SF65 series includes a base plate and a plug-in electronics/sensor module. The base plate can be installed and wired without the module at the same time as general electrical work is being done. When everything is ready, the module simply plugs into the base plate and is secured with 4 screws. The SF65 series features a large L.C. display for easy readings as well as a linear voltage output signal. The settings can be adjusted with a minimum exposure of the electronics. To adjust either the set point or the dead band, pop out the ROTRONIC label located under the L.C. display. This gives access to two potentiomers (set point and dead band adjustment) and to a 3-way switch, used to set the display mode (value, set point or dead band).