Duct Thermostats

Features

- Manual reset protection IP43
- Wide temperature range
- Concealed adjustment

Specification

Control range	See product codes for ranges
Differential:	
ST-DS01	3°C
ST-DS02	3°C
ST-DS04	ST
ST-DS06	2/20°C
ST-DS08	1°C
Switch rating:	
ST-DS01 & 02	250Vac @ 10(1.5)A
ST-DS04 to 08	24 to 250Vac @ 15(8)A
Sensing element	Liquid filled coiled copper bulb
Housing material:	
Cover	ABS
Base	Byblend
Housing dimensions	108 x 70 x 72mm
Protection spring length	200mm
Ambient range:	
Housing temp.	-35 to +65°C
RH	0 to 95% (non-condensing)
Storage	-20 to +70°C
Protection:	
ST-DS01 & 02	IP54
ST-DS04	IP43
ST-DS06 & 08	IP65
Conformity	CE Marked
Country of origin	Italy

Product Codes

ST-DS01
Duct thermostat –35 to +35°C, auto reset
(max. bulb temp. 75°C)

ST-DS02
Duct thermostat 0 to +60°C, auto reset
(max. bulb temp. 75°C)

ST-DS04
Duct thermostat +20 to +90°C, manual reset
(max. bulb temp. 100°C)

ST-DS06
Duct thermostat +20 to +90°C, auto reset
(max. bulb temp. 100°C)

ST-DS08
Duct thermostat –30 to +30°C, auto reset
(max. bulb temp. 60°C)

Technical Overview

The ST-DS range of duct thermostats can be used to control the temperature in duct work systems. Liquid filled sensing elements ensure rapid response and accurate switching differentials.
They are available in two formats:
Control thermostats which have adjustable set point, with adjustable differential and auto reset, to provide a switched output to the heater/cooler or controller.
Safety thermostats which have adjustable set point, fixed differential and manual reset, to provide high limit cut out on boilers etc.

Installation

1. The ST-DS should only be installed by a competent, suitably trained technician, experienced in installation with hazardous voltages. (>50Vac & <1000Vac or >75Vdc & 1500Vdc)

2. Ensure that all power is disconnected before carrying out any work on the ST-DS.

3. If the sensor is to be mounted outside, it is recommended that the unit be mounted with the cable entry at the bottom. If the cable is fed from above then into the cable gland at the bottom, it is recommended that a rain loop be placed in the cable before entry into the sensor.

4. Select a location in the duct which will give a representative sample of the prevailing air condition.

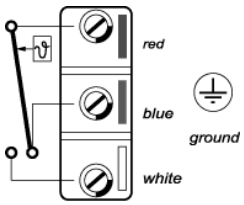
5. Mount to the duct using suitable screws.

6. Remove the front cover, and separate from the main body.

7. Feed the cable through the waterproof gland and terminate the cores at the terminal block. Leaving some slack inside the unit, tighten the cable gland onto the cable to ensure water tightness.

8. Adjust the set point as required and replace the front cover.

Connections



Red	Common
Blue	Heating N/C Cooling N/O
White	Cooling N/C Heating N/O

Dimensions