

DTFS Dual Temperature and Airflow Sensor

APPLICATION

The DTFS is designed for use in H&V applications where it is necessary to detect airflow and temperature for controlling electric heater batteries. It is especially suited for ductwork systems with low air velocities where a pressure switch would not operate. Designed for use specifically with the AA Heating Group range of temperature controllers.

Having both temperature and airflow measurement in one package reduces the installation time. The sensor utilizes "state of the art" MEMS technology to give outstanding performance over a wide range of airflows.

DESCRIPTION

A black HIGH TEMPERATURE glass filled plastic moulded assembly with a 20mm diameter sampling tube (98mm long) with 2M 5 core white lead with a 2way and 3 way kK plugs for connection to TC3 and TC8 PCB. 2 X 4.5mm holes are provided, on the mounting bracket for securely fixing the sensor to the duct.

INSTALLATION

Mount the unit in the duct (circular or rectangular) at least 1.5 metres downstream from the heater bank. The two fixing holes must be parallel with the duct so the sampling tube is in the correct position and air passes through the hole for both the MEMS and temperature sensors. The airflow direction Arrow on the sensor denotes the correct orientation of the sensor and must be compatible with the direction of airflow.

To install drill a 20mm hole centrally in the duct, insert the airflow monitor and using PK screws fix firmly in position. A neoprene gasket supplied with the unit will give a good seal between the duct and the unit.

SPECIFICATION

Part code	DTFS
Supply voltage	0 to 3V DC
Minimum operating range	1m/s
Enclosure	IP65
Probe	116mm long (max) Inserted length 98mm x 20mm diameter max.