

# YOUR ONE STOP CONTROL SHOP



**TP3801** 

# **SMART SENSOR – DUCT PROBE**

### DESCRIPTION

The TP3801 smart sensor duct probe is a 200mm (8") temperature probe for insertion into air conditioning ducts or thermowells in pipelines for temperature measurement.

The smart sensor operates on a two wire non-polarised connection to the TC5044 controller. Power and communications are supplied over one pair of wires. Up to four sensors, including one TR3840 sensor can be connected to the same pair of non-polarised wires. The TP3801 has a two pole dip switch for sensor application.

### **DIP SWITCH SETTINGS**

There are four settings :

00 - Outside Air Temp Sensor

10 - Return Air Temp Sensor

01 - Zone 1

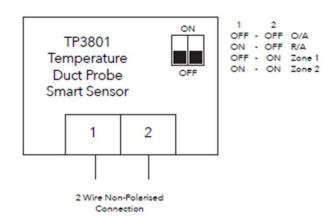
11 - Zone 2

## **OUTSIDE AIR ECONOMY CYCLE HI-LIMIT FUNCTION**

#### **MENU 33 - TC5044**

The Return Air Sensor will operate as the Control Sensor and as the Differential Sensor. This can also be a TR3840 Smart Room sensor operating as Control and Differential Sensor. Outside Air DB Temperature Sensor – Smart Sensor - TP3801 – Dip Switch setting 00 . Return Air DB Temperature Sensor – Smart Sensor - TP3801 – Dip Switch setting 10 . The control loop operates as a differential temp. between OA & RA Sensor. i.e. If the OA has a lower temp. (factory setting 1°C) Analogue Output 2 will function (0-10Vdc) Adjustable differential range 0.5°C to 5°C.

#### **CONNECTION DIAGRAMS**



**NOTE**: Cycle Power to controller after changing DIP Switches

#### **TECHNICAL DATA**

ITEM	DESCRIPTION
Supply Voltage	24Vdc Power & Comms supplied from TC5044 & TC6644
Power Consumption	0.2W Max.
Temperature Range	-10 - 60°C +/- 0.2°C ( Transmitted )
Ambient Temp. Operation	0 - 50°C
Ambient Humidity	Max. 90% RH
Dimensions	200mm (8") Probe Length

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