



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 :

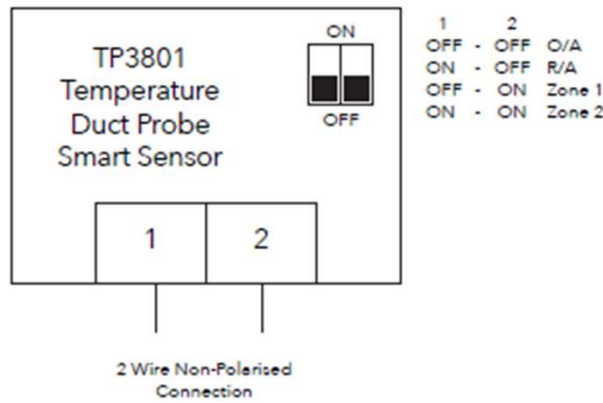
- 00 - Outside Air Temp Sensor
- 10 - Return Air Temp Sensor
- 01 - Zone 1
- 11 - Zone 2

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