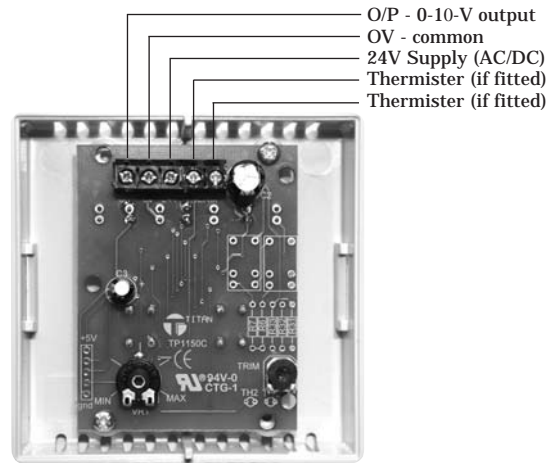
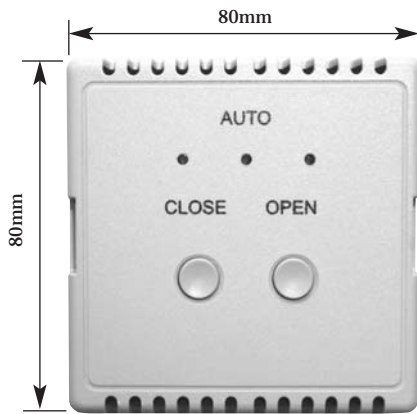


Electronic Window Position Setting Unit



DESCRIPTION

The electronic setting unit is specifically designed for Window Ventilation Control. The product is housed in the Titan room sensor box with an option to fit on to a flush single gang plate. The setting unit operates on 24 Volts AC/DC with an option to incorporate a temperature sensor which will depend on the controller being used.

FEATURES

- * Room Sensor enclosure or Single Gang Plate
- * 24V AC or DC supply
- * 0-10V switched output signal
- * LED Indication
- * User selectable Push Buttons
- * Optional Temperature Sensor (Thermistor)
- * Option Temperature output 0-10V
- * Delay time setting (reverts to auto)
- * Interfaces to Window Controller

SPECIFICATION

Material	Flame Retardant Polycarbonate
Supply	24VAC /DC + 15%
Power Consumption	30mA (with relays fitted)
Output	0-10V or Switch Sensor Values
Reset Timer	30 minutes to 3 Hours
Temperature sensor	Optional Thermister
Temperature range	0-50°C
LED Indication	Auto/Close/Open
Operating Temperature	0-40°C
Terminals	1.0 mm
Dimensions	80mm x 80 mm x 30mm deep
Order Code	See back



Measurement Devices for Control Systems

Titan Products Ltd.
 Unit 7 Southside, Bredbury Park Industrial Estate, Bredbury,
 Stockport SK6 2SP England.
 Tel:- 0161 406 6480 Fax:- 0161 494 8309
 E-mail :- admin@titanproducts.com
 Website :- www.titanproducts.com

© Copyright Titan products Ltd. 2006

Description of Operation for Window Control

There are 3 settings in the unit which are CLOSED/AUTO/OPEN and each selection is indicated by the appropriate LED.

When in AUTO (the default condition) the corresponding LED will be ON and the temperature sensor output (if fitted) will be a direct reading for the controller or a voltage output 0-10V equivalent to the temperature range (see voltage output below)

Temperature Resistance Operation (Terminals THERM if Fitted)

The output resistance will depend on the type of temperature sensing element used and this is selected at the time of manufacture and is defined by the customers order requirements.

In AUTO the Thermistor sensor is a direct output to the window controller which in turn controls the position of the window actuator.

If the CLOSED button is pressed once, the corresponding LED will come ON and relay 2 will energise switching in a series resistor to simulate a low temperature condition back to the controller. The condition will remain for the period of time set on the potentiometer VR1 (range 30min to 3 hours) after which it will revert back to AUTO.

Pressing the CLOSED button whilst the CLOSED indication is On will cancel the condition and switch the controller back to AUTO.

Pressing the OPEN button in a CLOSED condition will switch the unit On to OPEN for the full period of time set on the VR1 (range 30min to 3 hours)

If the OPEN button is pressed then the corresponding LED will come ON and relay 1 is energised switching in a parallel resistor to simulate a high temperature condition back to the controller. Again this condition will remain until the time out or if cancelled by pressing the OPEN button again or the condition is changed by pressing the CLOSED button.

0-10V Output (Terminal O/P)

The operation of the 0-10V version is as stated above except that the unit operates with a 0-10V output signal which can also represent a temperature range of 0-50°C for the 0-10V signal

This 0-10V output will also vary in signal level as follows

<1V = Closed

>9.5V = Open

1.5 to 9 Volts (7.5 to 45°C) in Auto.

NOTE: - The 0-10V Unit can be supplied if required by the customer with a Thermistor temperature sensor giving a continuous output and not affected with the Auto/Closed/Open operation.

Order Codes

TPTRS/ACO/R - Unit includes 10K3 Thermister for resistance output operation.

TPTRS/ACO/V - Unit includes 10K3 Thermister direct output and 0-10V operation.

For other temperature sensors consult the sales office