

Window Positioning Unit



The TP/ACO is designed to be used as a user interface in conjunction with Titan Products natural ventilation BACnet controllers.

They are available in a surface mount room sensor enclosure or in a flush single gang plate assembly. The TP/ACO is designed to override the window or ventilation position within a natural ventilation BACnet system.

The TP/ACO requires a 24VAC or DC supply and a 0-10V signal to enable/disable its action. When enabled the TP/ACO can indicate the stage position of the natural ventilation controller and allows manual selection with a 0-10V output signal back to the controllers. The percentage open positions are set in the natural ventilation controller.

Output from the natural ventilation controller to the ACO input (all values will be +/- 0.5V).

Power Supply:	24V AC/DC +/- 10%
Power Consumption:	3mA
Input Signal:	0-10V DC (referenced to common ground)
Output Signal:	0-10V DC (referenced to common ground) 3mA max. load
Indication:	5 x green LED's
Push Buttons:	Touch sensitive (for plastic assembly) Mechanical for metal plates
Connections:	1.0mm terminals
Dimensions:	80mm x 80mm
Country of Origin:	UK
Product Code:	TP/ACO/4S TP/ACO/F/W

Features

- Fully compatible with Titan Products BACnet natural ventilation controllers
- 5 override position setting
- Touch sensitive buttons
- LED indication
- 0-10V output signal

ACO disabled	<1V (Override is indicated static LED)
Auto/Active	= 2V closed (all LED's off)
1st stage min %	= 4V (1st left LED On static)
X%	= 6V (2nd left LED On static)
X%	= 8V (3rd left LED on static)
4th stage Max %	= 10V (4th left LED on static)

Output from ACO to Controller when enabled with the input level at 2V or above and when the Manual selection is made using the ACO buttons

Auto/Active	= 2V closed (LED's dictated by Auto)
1st stage min %	= 4V (1st left LED On slow pulse)
2nd stage	= 6V (2nd from left LED on slow pulse)
3rd stage	= 8V (3rd from left LED on slow pulse)
4th stage max %	= 10V (4th from left LED on slow pulse)

When the input from the controllers is 2V or above, the ACO is enabled and manual operation can take place. Manual selection will only move up from the controller auto position and is indicated with a pulsed LED. The operator can not move below the auto control position.

If after a manual selection has been set the Auto control input matches or exceeds the manual value then the Auto control takes priority and cancels any previous manual selection. Manual selection can only be above the Auto value otherwise the function is inhibited.

Connections

