

C² HVAC

Field devices

WAC (Intelligent Window Actuator Controller)

Product Description

The WAC is a self contained intelligent Window Actuator Controller, which operates from a 0/10 V positioning signal via a suitable controller. The WAC features an intelligent 'self stroking' operation and controls the 24v DC window actuator in steps to prevent noise disturbance to end users.

Typically one WAC per window is used, however multiple WACs can be connected together using the same 0/10v signal. The Intelligent Controllers when linked communicate with each other allowing only one to operate at a time This saves the expense and space in only needing a DC power supply rated for the largest actuator (maximum 3 Amp per controller) to be operated. It also gives a smoother control operation to the Zone(s) controlled. The unit is supplied with Open/Close terminals, allowing for example fire override. To minimise wiring the controllers `push` together to share signals and power supply.



Dimensions (Approx) per controller

Height 98mm Width 18mm Depth 110mm -- DIN rail mountable

Technical details

24v DC supply 0/10vDC input signal Output 24v DC

Connections

Terminal number	1	2	3	4	5	6	7	8	9	10	11	12	W	W	
	0V	Comms link with other controllers to share power supply	Not used				override close window connect to 0V	Override open window connect to 0V	Input Signal 0/10V	0V	24V DC	To window actuator	To window actuator	Reverse these connections if operation is wrong way	
						ie via switch /relay									

Steps (expressed as % of run time of actuator)

	Closed	10%	25%	45%	100%
Signal opening (rising)	0V	>2.0V	>4.0V	>6.0V	>8.0V
Signal closing (falling)	<1.8V	<3.8V	<5.8V	<7.8v	10v

All values ± 10%

Options

Power Supply
Battery back up
Fire Alarm Link

Suitable Controllers

Passivent iC5000 / 6000 series
Clarkson MPU
BMS 0/10v DC Output