



AUTOMATED HARDWARE
POWER STRUTS

2024.03 v1.1

alspec[®]
EVERYTHING ALUMINIUM
& HARDWARE

POWER STRUTS

The easy way to 'Plug & Play' Automate servery windows with the self latching, self locking Power Struts.

Alspec's automated hardware provides a complete range of automated hardware for Residential and Commercial applications.

The Power Strut is a electric power driven actuator capable of opening large awning windows and other window systems.

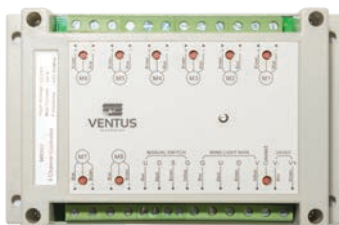
Unlike any other servery style window, this unit is designed to open, close and secure itself unassisted. The actuators push the latch to unhook itself, allowing then the window to lift open, up to 90 degrees with some window systems.

The design of the latch plate is integral to the system. By incorporating the Linear Actuators with the latch mechanism, the user can drive the hook down and then use the connection point on the latch as the drive mount. The unique design of the combination ensures the hook remains unlocked until the final 15 mm of strut travel when the latch internals allow it to drive up and lock.

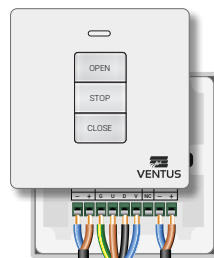
PLUG&PLAY SYSTEM

The Alspec 'Plug & Play' system consists of a simple range of controllers, switches and motors all connected via quick connect plugs.

Running on the 24 Volt 'Plug & Play' system provides simplicity & reliability that is easy to install and does not require an electrician to connect together.



MR551
8 Channel Controller



MR536
1 Channel Controller



2 Pin Plugs
Power and Motors



4 Pin Plugs
Accessories



POWER SUPPLY

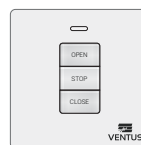
Running on 24V DC, the system by design only requires a GPO or regular mains power outlet at the reach of the supplied power pack to plug into. Not needing an electrician to wire up all the hardware components is a key benefit of the Alspec 'Plug & Play' system.

AUTOMATED CONTROLS

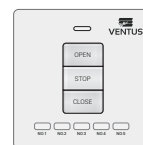
A Wind Light Rain Sensor can be added to offer an automatic control when the weather turns undesirable. The system also alternatively allows to connect into the existing Building Management System (BMS) or C-BUS.

REMOTES & CONTROLS

One controller can be connected to an infinite number of switches and remotes, allowing you to put the controls where you want for absolute convenience.



WT211
1-Channel
wireless
wall mounted
switch



WT215
5-Channel
wireless
wall mounted
switch



RT111
1-Channel
wireless
remote
control



RT1116
16-Channel
wireless
remote
control



STAINLESS STEEL
COVER PLATES

STAINLESS STEEL
TOP MOUNT

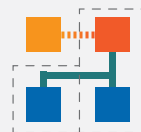
AVAILABLE IN
DIFFERENT SIZES

STAINLESS STEEL
BOTTOM MOUNT

BOTTOM LATCH
MECHANISM

IP32
RATED

When installed according
to installation instructions



OPERATES ON ALL
BMS & C-BUS



C TICK Certified



WATCH OUR VIDEO:
AUTOMATED POWER STRUT

YouTube

TESTING



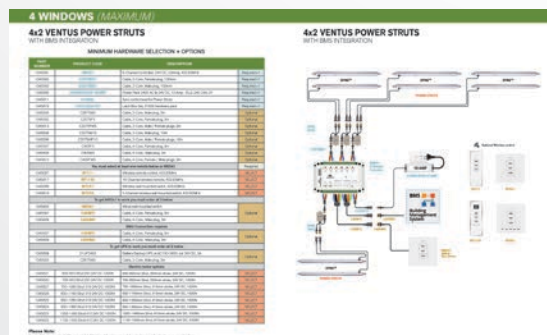
Tested to AS2047, and AS/NZS4420.1

POWER STRUTS



WIRELESS CONTROL

Wireless Hand Held Remote and Wireless Wall Switch offers control from convenient locations and is easily paired to the Plug&Play Controller Unit.



EASY TO FOLLOW COLOUR CHARTS

Installation is made a breeze with the easy to follow colour chart and wiring drawings.



QUICK CONNECT PLUGS

The Alspec plug & play system connects fast and simple by the use of quick connect plugs.



NO ELECTRICIAN WIRING

Using quick connect plugs and a 24V DC power pack plugging into a general power outlet (GPO), the system does not require a licensed electrician to connect all the components.

The easy way to **PLUG&PLAY**



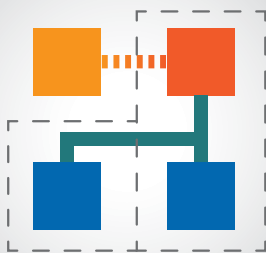
STAINLESS STEEL COMPONENTS

The top and bottom mounts are fabricated from 316 Stainless steel to offer superior corrosion resistance in a variety of environments.



BOTTOM LATCH MECHANISM

Designed to self latch on close, the hook and mount allows the window to remain secure until the actuator unlocks and opens the window.



MULTIPLE INSTALLATION OPTIONS

The system can operate either standalone or integrate with BMS, C-BUS, & GPO installations, adding for flexibility of control and installation.

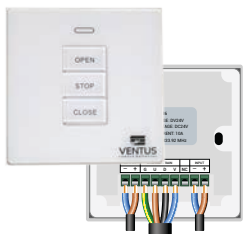


CLEAR VIEW, LOW PROFILE

The Linear Actuator and Mount Blocks sit hard up against the jamb and high up when open, creating minimal obstruction and a clear opening.

Auto hardware Components

All the hardware you need and no confusion. The Alspec automated hardware range encompasses control units at the heart of the system, power supply, control pads and wireless remotes, automated sensors, leads, extensions, accessories and the window operator motors themselves. Alspec also provides compressive wiring diagrams to aid in the 'Plug & Play' installation.



MR536
1-Channel control unit



MR551
8-Channel control unit



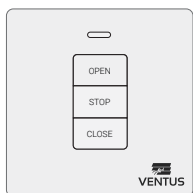
POWER PACK 2.5AMP
Mains power 240V AC
to 24V DC



POWER PACK 10AMP
Mains power 240V AC
to 24V DC



21UP2403
UPS Battery backup power



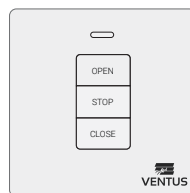
MS541
Wired wall mounted
switch



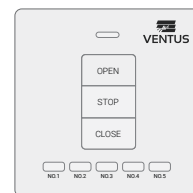
RT111
1-Channel wireless
remote control



RT1116
16-Channel wireless
remote control



WT211
1-Channel wireless
wall mounted switch



WT215
5-Channel wireless
wall mounted switch



WLR001
Wind Light Rain
Sensor



C2075F01
2-Core female plug
100mm



C2075M01
2-Core male plug 100mm



C2075F3
2-Core female plug 3m



C2075M3
2-Core male plug 3m



C2075FM3
2-Core female-male plug
3m



C2075FM10
2-Core female-male plug
10m



C2075M10
2-Core male plug 10m



C405F3
4-Core female plug 3m



C405M3
4-Core male plug 3m



C405FM3
4-Core female-male plug
3m

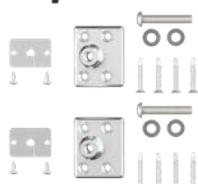


C1F2M TEST LEAD
On-site test unit

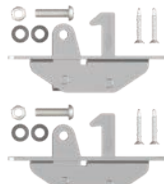


S102HL
Power Strut SYNC Lead

POWER STRUT AND LATCH BOX COMPONENTS



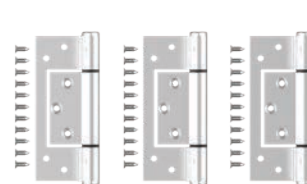
**TOP MOUNT
POST**



**LATCH
BOX**

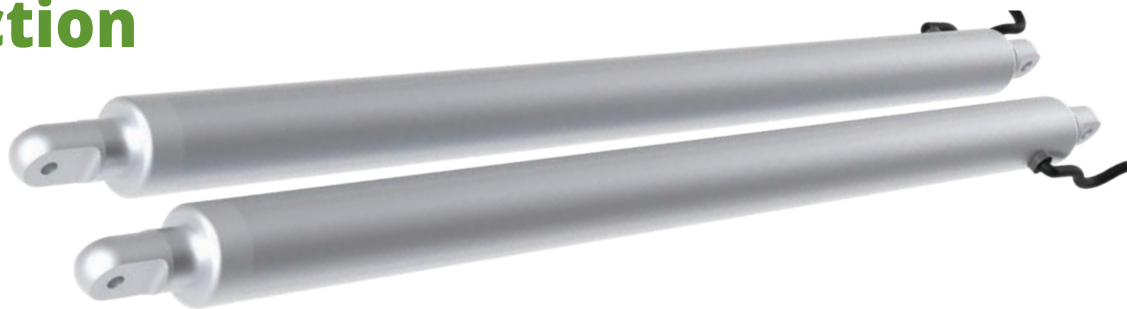


**BOTTOM
LATCH POST**



**OPTIONAL
HINGES**

Strut Selection



Strut Codes	Closed Length (mm)	Open Length (mm)	Stroke (mm)	Sash Height (mm)	Latchbox Cutout (mm)	Max Sash Weight (kg)
605-855 Strut 250 24V DC 1000N	605	855	250	950-1049	828	53
700-950 Strut 250 24V DC 1000N	700	950	250	1050-1149	923	49
750-1060 Strut 310 24V DC 1000N	750	1060	310	1150-1249	1023	60
850-1160 Strut 310 24V DC 1000N	850	1160	310	1250-1349	1123	55
850-1260 Strut 410 24V DC 1000N	850	1260	410	1350-1449	1223	77
950-1360 Strut 410 24V DC 1000N	950	1360	410	1450-1549	1323	72
1050-1460 Strut 410 24V DC 1000N	1050	1460	410	1550-1649	1423	68
1150-1560 Strut 410 24V DC 1000N	1150	1560	410	1650-1750	1523	65

Power Supply

The system uses a power pack to supply the required 24V DC to operate. A GPO (general power outlet) should be installed within reach to plug into. Which power pack to use is dictated by how many motors are connected to the channel controller.

An MR551 8-Channel Controller can power a maximum of eight motors however, as each Power Struts window setup utilises a set of two electric struts linked together with a synchroniser lead, a maximum of four channels can be used.

1 to 2 Sets:

2.5 Amp Power Pack
Max. 4 motors



3 to 4 Sets:

10 Amp Power Pack
Max. 8 motors



WIRING

The automation products operate off a 24V DC system and requires a minimum cable diameter of 0.75mm to reduce voltage loss over longer distances.

Established in 1974, Alspec is the market leaders in the design and distribution of innovative aluminium systems to the architectural, industrial and home improvement markets.



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All pictures shown in this catalogue are for illustration purposes only. Actual product may vary due to product enhancement.

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