Elevation Window Control System

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Elevation Electric Window Actuator

Lockwood's Elevation® is an Electric Window Control System designed to control your windows with a touch of a button. Elevation can be configured to reflect the unique layout of any home or commercial building but is primarily used to control windows that are hard-to-reach. Elevation is a flexible solution that will suit multiple window systems[2] and applications.

Window actuators can be installed in pairs that will cater for windows up to 2400mm wide or for heavier double glazed window systems[3].

Elevation conforms to the Building code of Australia, relating to the "Prevention of Falls from Windows" when used in conjunction with approved window systems. Elevation allows for a generous window opening (300mm) but can also be restricted at 15mm increments and ultimately restrict the window opening to 125mm or less.

Window actuators can be connected to a Lockwood touch screen display and Zones, such as lounge, hall, bedroom, North and east facing can be easily set up.

Product Details

Cabling	Control Loom: 2m extend up to 300m (Twisted pair) Power Loom: 2m
Chain Length	300 mm
Chain Limiting	Limit chain between 50-300mm @ every 10mm
Current	Standby Current 20mA Maximum Peak Load 750mA
Dimensions	32H x 308L x 44D (not including sash bracket)
Endurance	12,000 Cycles
Environment	Operational temperature range 0° to +60°C
Finishes	Black **(BLK)** White **(WH)** Special Powdercoat **(PPC)**
Humidity	90% @ 35°C
Materials	Furniture body: cast zinc. Sash Bracket components: Cast 303SS Chain: Stainless 304
Monitoring	Monitor Open Closed 15mm or 50%
Negative Holding force	220kg Applied force at chain
Noise Level	65dB @ Maximum window Load
Open / Close Force	9kg
Voltage	24-32 VDC

Standards and Compliance

C-Tick	C-Tick Certified
IP30	Rated (if installed according to installation instructions)
DW2	Australian Window Standard (AS4145.3-2001)
◆	Australian Window Standard for negative force strength pressure (AS4145.3-2001)

Reference notes

[2] See fitting instructions to ensure that Elevation is suitable for your window type or size, Elevation is suitable for awning and casement windows

[3] See website lockweb.com.au for the exact window size allowance. Large or short windows may be restricted in terms of opening.

[4] One Network adaptor is required to control your windows via a switch or Cbus system, refer to 3rd party connections for more information

25YEAR MECHANICAL WARRANTY

Elevation Electric Window Actuator

Alternatively you can also choose to control your windows with a standard wall switch or via any 3rd party Cbus or Building management system[4].

Elevation is easy to install with the flexibility of adding additional windows at a later stage. Ultimate control is only a touch away with the option to instantly close all windows at once when leaving the house, or locking up for the night.

Applications

- Awning and casement windows
- High out of reach windows
- Conveniently open single or a group of windows
- Commercial buildings
- Residential buildings

Window Sizes

Maximum Window width Single Actuator - 900mm
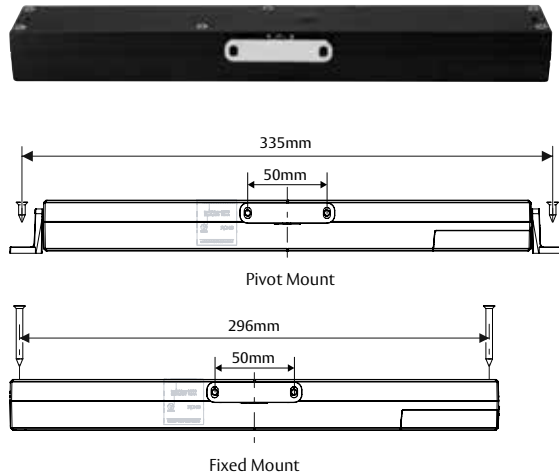
Maximum Window width Double Actuators - 2400mm

Minimum Window height 300mm

Note: Windows may need to be restricted in terms of chain length, for a complete window matrix refer to lockweb.com.au
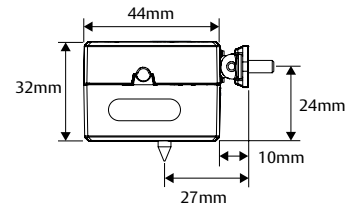
Window Actuator Features

- Actuators can be controlled individually or grouped into zones
- Actuator can withstand 220kg applied negative pressure*
- 9kg closing force ensures a tight window seal when closed
- Smooth chain movement
- 40 seconds Opening/closing time
- 300mm chain opening
- Strong, corrosion resistant stainless steel chain (grade 304)
- Field adjustable chain limiter. Limit chain between 50-300mm at every 10mm
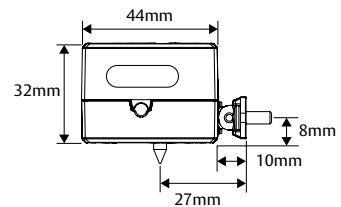- Quick clutch release Key for easy installation without power connected
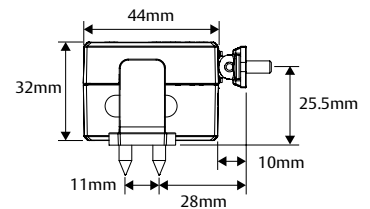
Elevation Electric Window Actuator

Pivot Mount

Fixed Mount

- Connect and synchronize a pair of window actuators to one large window
- Ability to install actuator in multiple orientations including top and bottom chain exit.
- Will cater for window sashes as short as 300mm high**
- Can connect to touch screen display, standard wall switch or Cbus systems
- Network cabling can span up to 300m without voltage drop
- Connect and control up to 30 window actuators to a touch screen display
- Can connect multiple actuators (31 maximum) to a standard wall switch

* Through sash fixing is required to reach this force

** Please see our website for the exact window size allowance, large or short windows may be restricted in terms of opening

Mounting Options

Fixed Mount Top Chain Exit

Fixed Mount Bottom Chain Exit

Pivot Mount Top Chain Exit

Note: Top hinge or Non friction stays need to be used

Elevation Electric Window Actuator

Devices

Product Type		Devices
Window Actuator		(1)
Window Actuator that's synchronized		(1)
Touch Screen Display		(1)
Rain Sensor		(1)

Ordering Notes

A Network's capacity is 32 devices, each of the above counts as one device. When planning ensure you have 32 devices or less

Elevation Electric Window Actuator

Part Numbers	Description
LW-EWAC-300-BLK	ELEVATION SS CHAIN 300 BLK NO POWER SUPPLY
LW-EWAC-300-WH	ELEVATION SS CHAIN 300 WH NO POWER SUPPLY
LW-EWAC-300-PPC	ELEVATION SS CHAIN 300 SPEC NO POWER SUPPLY
Accessories	
EWAC-SSL	ELEVATION SYNC LOOM
EWAC-SNA	ELEVATION NETWORK ADAPTOR
EWAC-SRS	ELEVATION RAINSENSOR + NA
LW-TSD-35-WHT	ELEVATION TOUCH KEYPAD 3.5"
EWAC-SPS1000	ELEVATION 1000 mA POWER SUPPLY
EWAC-SPS1500	ELEVATION 1500 mA POWER SUPPLY
Spare Parts	
EWAC-CPL	CONTROL & POWER LOOM
EWAC-SCRP	ACC PACK – SCREWS, CAPS, AND LIMITER PLUGS
EWAC-PVT-WH	PIVOT BRACKETS WHITE
EWAC-PVT-BLK	PIVOT BRACKETS BLACK

Network Examples

Example 1	Example 2
Product Type	**Product Type**
30 x Actuators	30 x Actuators
1 x Keypad	2 x Keypads
1 x Rain Sensor	0 x Rain Sensor

Example 3	Example 4
Product Type	**Product Type**
26 x Actuators	29 x Actuators
2 x Keypads	2 x Keypads
4 x Rain Sensors	1 x Rain Sensor

Other Notes:

- Power supplies needs to be ordered separately. Calculate the power consumption of total products used and ensure you order the correct quantity and size power supplies
- All Window actuators are the same regardless if they connected to a touch screen keypad, standalone switch or connected as a synchronized unit.
- Rain sensors will only work when connected to touch screen display network
- If you require a window actuator that's connected to a standalone switch you will need one Network adaptor (EWAC-SNA) per switch
- If you require a window actuator that's connected to a Cbus system you will need one Network adaptor (EWAC-SNA) per relay output.
- You can connect a maximum of two keypads per network
- You can connect a maximum of four rain sensors per network

25YEAR MECHANICAL WARRANTY

Elevation Touch Screen Display

The Lockwood Elevation™ touch screen display is an elegant Touch pad that's been designed to control up to 31 Elevation window actuators. The touch pad can be programmed to open individual or groups of windows. You also have the option to name your windows or groups from a predefined list suitable for commercial or residential applications.

Window positions can be controlled to: open, close, move to a 50% or a venting position. The status of your window positions can be viewed at a glance throughout your building. You also have the option to instantly close all windows at once when leaving the house, or locking up for the night. The Lockwood Touch Screen display allows you to easily decide which window or group you would like to: open, half open, close or vent.

The Touch Screen Display also gives you the ability to connect up to four rain sensors and can be controlled to automatically close in the event of rain. You also have the ability to set the window to reopen once the rain has stopped. The smart rain sensor also has the ability to differentiate between rain and dew with built in heating elements that dries moisture build up.

Applications
- Commercial Buildings
- Residential Buildings

Touch Screen Display Features
- 3.5" colour Touch Screen Display
- Control up to 31 windows
- 30 predefined window and group names
- 2 button touch, to control a window
- Live status of window position
- Instantly open or close all windows
- Pin code lockout option
- Synchronize an additional touch pad to the network
- Window obstruction status and warnings
- Control up to four rain sensors independently or grouped
- Easy installation with 4 wire control
- Emergency "close all" override from home button

Product Details

Cabling	Control Loom: 2m extend up to 300m (Twisted pair) Power Loom: 2m
Current	Standby Current 20mA Operating Current 100mA
Dimensions	128H x 87W x 21D
Environment	Operational temperature range 0° to +60°C
Finishes	White face with Silver trim **(WH)**
Humidity	90% @ 35°C
Materials	Keypad housing: PVC.
Voltage	24-32 VDC

Standards and Compliance

C-Tick Certified

25YEAR MECHANICAL WARRANTY

Elevation Touch Screen Display

Elevation Touch Screen Display

Part Numbers	Description
LW-TSD-35-WHT	ELEVATION TOUCH KEYPAD 3.5"
Accessories	
EWAC-SRS	ELEVATION RAINSENSOR + NA

Ordering Notes

A network's capacity is 32 devices, each of the above counts as one device. When planning ensure you have 32 devices or less

Note: EWAC-SPS1000 is required to power Keypad

87   21

128

Front View   Side View

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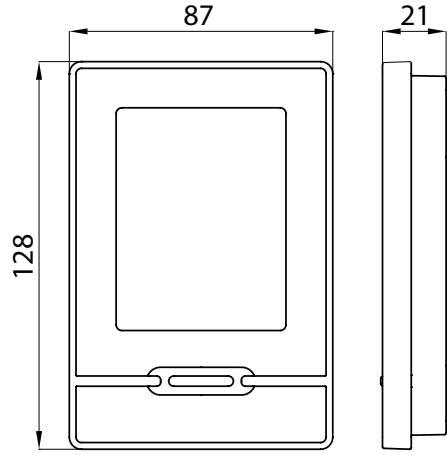
Elevation Rain Sensor

The Lockwood Elevation™ Rain Sensor has been specifically designed to work with the Elevation actuators and your touch screen display. Basic automatic "close all" function can be achieved or advanced functionality can be programmed.

Functions

Rain Sensors will be triggered by rain and automatically close the windows. Rain sensors can also be configured to re-open to original position when the rain has stopped. Rain sensors can be even further configured so that if rain comes from one particular direction i.e. east location only, windows in the east will close and the rest will remain open. The rain sensor also has the ability to differentiate between rain and dew with built in heating elements that dry up moisture build up.

Application

- Automatically close windows in the event of rain
- Commercial Buildings
- Residential Buildings

Rain Sensor Features

- Connect up to of four sensors per network
- Visual rainfall indicator on keypad
- Integrated heating elements to dry up dew or moisture
- Smart re-open function
- After rain has stopped "go to vent" function

Product Details	
Dimensions	60H x 50W x 16D
Materials	Furniture body: Durable Acetal UV Stable. Bracket: Stainless Steel 304
Finish	White **(WH)**
Voltage	24-32 VDC
Current	Standby Current 50mA Operating Current 300mA
Environment	Operational temperature range 0° to +60°C
Humidity	90% @ 35°C
Cabling	Loom: 2m

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Elevation Rain Sensor

Elevation Rain Sensor

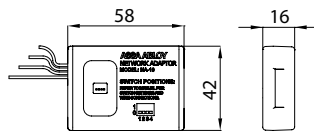| Part Numbers	Description
EWAC-SRS	ELEVATION RAINSENSOR + NETWORK ADAPTOR

Ordering Notes

A Network's capacity is 32 devices, each of the above counts as 1 device. When planning ensure you have 32 devices or less

Note: EWAC-SPS1000 is required to power Rain Sensor

Rain Sensor

Network Adaptor

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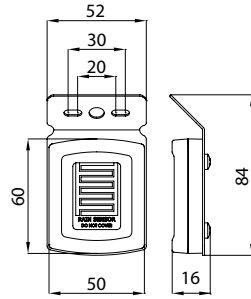
When it comes to safety it's primal, it's our survival, a basic human need. We want freedom to live, explore and rest without fear. To leave behind in safety our precious, cherished and most valuable things. And to come back to them exactly as we left them.

For as long as we have valuables, we will always need protection. Though the need for our products is driven by concerns, the Belief in our Brand is propelled by confidence. An unquestioned confidence in our ability to protect what is most important to you.

Our products provide peace of mind through strength, substance and style. Our reputation is forged in traditions, supreme workmanship, uncompromised values and above all our people. We are a trusted, tireless and vigilant guardian that protects families, households, trades and businesses.

Because if feeling safe is a basic human need, knowing you're safe is why Lockwood exists. For over 75 years, our guiding principle is and will always be: To take the worry out of protecting what is valuable to you.

Lockwood: *no worries*®

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Lockwood is the leading brand in the Australian locking industry. With an established reputation for high quality products, this iconic brand provides a wide range of locking solutions to residential housing, commercial, semi-commercial, building and industrial application markets. Lockwood is supported by an extensive distribution and after-sales support network. Our customers include retailers, architects, trade and industrial personnel, locksmiths and security dealers.

ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience.

ASSA ABLOY is represented in all major regions, in both mature and emerging markets, with leading positions in Australia, Europe and North America.

25YEAR MECHANICAL WARRANTY

The Lockwood 25 Year Mechanical Warranty

Our belief that we manufacture the finest premium products available in today's market place is backed by the Lockwood 25 Year Mechanical Warranty, ensuring that Lockwood continues to keep Australians safe by delivering security and peace of mind.

For warranty terms and conditions, please visit **www.lockweb.com.au** or call **1300WARRANTY**

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