



Electric Range Overview

Arens International's range of electric remote controls is an effective and efficient way of providing passive or natural ventilation in buildings.

Our range of electric window controls is not only cost effective, but is sleek in design with a proven track record of reliability and longevity in each installation.

They are easy to operate either from a switch on the wall, interfaced to a BMS, or through an Arens Ventilation Control Panel connected to a range of sensors including rain, wind, temperature or fire.

Our low profile, low cost Compact Chain Winder is a perfect fit for virtually any type of window and is the most popular product in our range. **R**

Types of Actuators

Arens International has three different actuator ranges. There are cost effective actuators, with limited capability, through to actuators that may have the stroke, force, open and closing speeds programmed before shipping.

There are two types of window actuators that are referred to as electric chain actuators that are used to open and close awing windows and may vary in chain lengths.

The other types of actuators are spindle actuators that extend a fixed shaft. They are suitable for operating louvres, external vertical louvres, vents, dampers and awing windows. In the case of awing windows two are required, on either side of the window and a synchroniser controller is also required for safety, ensuring to ensure that should one actuator not operator the other is prohibited from operating immediately.



Chain Actuator



Spindle Actuator

Chain Actuators	Stroke [mm]	Force [N]	Current [A]
Arens Compact	150 - 400	225	0.6
UCS Vega	300	250	0.7
UCS Quasar	500	300	0.9
UCS Quasar L	600 - 1000	300	0.9
UCS Synchro Vega	300	250	0.7

Spindle Actuators	Stroke [mm]	Force [N]	Current [A]
Arens Spindle	180 - 300	650 - 800	0.8 - 1
UCS Ulysses	180 - 300	650 - 800	0.8 - 1



BMS Integration with Arens Actuators

Arens can provide a natural ventilation system that can operate independently, partially or fully controlled by a BMS. There is also the ability to provide status information to the BMS as whether the windows are open or closed.

BMS Integration

- For integration with most common BMS (such as Siemens, Schneider and Dynalite) all that is required is a voltage free contact.
- This will allow for operation of the Natural Ventilation System from the BMS, but status information, such as whether the windows are open or closed, will not be provided.

BACnet

- Integration with BACnet is possible through voltage free contact. This will allow the BMS to operate the windows, but it will not provide it with any status information, such as whether the windows are open or closed or if there is an error.
- BACnet can support ModBus in many cases though, where the BMSline ADV range of UCS Vega Chain Winders can be used and allow for a degree of two way communication to occur. Meaning the BMS would get information as to whether the windows are open or closed and if there is an error.

KNX

- Integration with KNX is possible using a KNX Controller. This enable a degree of feedback from the controller to the BMS as to whether the windows are open or closed and will provide a signal if there is an error.
- The other way of integrating with KNX is through a voltage free contact. This will allow the BMS to operate the windows, but it will not provide it with any status information, such as whether the windows are open or closed or if there is an error.

ModBus

- The UCS Vega Chain Winder Range provides the greatest level of functionality when it comes to integration with ModBus.
- Two way communication between controllers and ModBus is made possible through the Vega BMSline ADV range.
- This means that not only is operation through the BMS possible, but the BMS will also be provided with feedback as to whether the windows are open or closed or there is an error.