Electronic window systems offer smoke, temperature and rain detection.
CLEARLINE WINDOW SYSTEMS
Ahead of your senses - Clearline Architectural window systems are designed to suit all types of buildings. From modern office buildings, schools, hospitals, public buildings, factories, disabled accommodation to domestic and commercial conservatories. Clearline Architectural can offer a complete range of window control systems, from manual or electronic ventilation to smoke ventilation. Clearline products are available via their global distribution network.

MANUAL CONTROLS
The manual systems offer a simple inexpensive solution for ventilation. Used in schools, hospitals, public buildings, industrial applications as well as domestic applications.

ELECTRONIC CONTROL SYSTEMS
The electronic product offers tailored systems to suit each project. Using rain, temperature, and smoke detection, we have automatic climate control where each zone can be refined to suit the specified requirements. Systems can be tailored to each project, new or retrofit.

CLEARLINE PROVIDE ENVIRONMENTAL CONTROL SOLUTIONS FOR:

PUBLIC SECTOR
- Bath Manual and Electronic systems are suitable for the public sector.

DOMESTIC
- Both Manual and Electronic systems are suitable for domestic applications.
- You can use Clearline systems in many ways around the home.

COMMERCIAL
- Bath Manual and Electronic systems are suitable for Commercial and new build sites.

DISABLED
- Bath Manual and Electronic systems are suitable for disabled accommodation.
- With remote control or temperature sensors disabled people can easily manage their own environment. Temperature and rain sensors will help keep your home safe.
- Remote control allows less mobile people to easily open and shut most windows.

Manual system shown - opening up to 6 windows from one control.

The electronic product offers smoke, temperature and rain detection.
MANUAL WINDOW SYSTEMS

CENTRE PIVOT WINDOWS
Product required: Chain Unit.
Operator: Mini - Midi - Maxi.
Distance from chain to operator based on two 90° bends up to 18 metres.

OPTIMUM WINDOW SIZES
Up to Max: 1100mm wide
Min. 350mm deep
(A window 350mm deep will have a restricted opening)

FALL BACK BOTTOM HINGED WINDOWS
Product required: Chain Unit with Fall back adapter kit available via distribution network.
Operator: Midi - Maxi - Mini.
Based on two 90° bends up to 18 meters.

OPTIMUM WINDOW SIZES
Up to Max: 1100mm wide
Min. 250mm deep
(A window 250mm deep will have a restricted opening)

EXPLANATION
The numbers of windows that can be opened using a single operator depends on the depth of the window. When projection hinges are used more force is required to close the window.

EXAMPLE
1100mm wide
750mm deep
6 windows can be opened using 1 operator.

EXAMPLE
1100mm wide
350mm deep
3 windows can be opened using 1 operator.

TOP HUNG AND PROJECTION WINDOWS
Product required: Chain Unit.
Operator: Midi - Mini - Maxi.
Distance from chain to operator based on two 90° bends up to 18 metres.

OPTIMUM WINDOW SIZES
Up to Max: 1100mm wide
(Over 1100mm requires 2 Chain Units)
Min. 250mm deep
(A window 250mm deep will have a restricted opening)

MANUAL WINDOW SYSTEMS AND THE ENVIRONMENT
Clearline manual control systems are fully compatible....

Ahead of your senses – Clearline window systems are designed to suit all types of windows. Wherever there are out of reach windows that require an efficient unobtrusive and economical control.

Clearline Architectural are able to offer a solution. Products from this range can open and close a number of windows on a single operator up to 18 metres away.

Conduit Flexibility
Conduit can be cut and formed on site taking in account building contours.

Core
Core is cut on site to required length.

ROOF LIGHTS
Product Required: Screwjack based on 20 Kilos window weight.
Operator Maxi, Midi. Based on two 90° bends up to 20 meters.
MANUAL WINDOW CONTROLS

OPENERS

- **Chain Opener**
  This inconspicuous opener features a fully retractable stainless steel chain with chain lengths of 250mm and 400mm, fitted with a quick release window attachment. The all-metal chain opener has a high resistant polyester powder coated finish.

- **Screwjack Opener**
  A mechanically irreversible action allows the screwjack to be utilised for heavy applications where its design enables a considerable reduction on load on both the window gear and the operator.

CONTROLS

- **Midi Control**
  The most popular operator designed for single or multiple applications this unit houses the spent travel tube, which makes it the obvious choice for schools and hospital applications.

- **Maxi Control**
  This operator is designed for the heavy applications including multiple windows.

- **Mini Control**
  The smallest operator designed for single or multiple applications with the spent travel tube sheathed and wall mounted.

For full technical data and drawings, visit our web site: www.clearlinearchitectural.com

MULTIPLE CHAIN OPENER SYSTEM

Multiple chains operated by a single Midi via core encased in conduit and fitted with saddle clips.

SYSTEM COMPRISSES

- Midi control
- Non feedback clutch for security and safety.
- Cast covers.
- White, Brown, Black and Silver.

Chain opener
- 250mm.
- 400mm.
- Stainless steel chain.
- Range of brackets.
- White, Brown, Black and Silver.
CHAIN ACTUATORS

Mac 4 Control
This unit offers 300n thrust and a 400mm STAINLESS STEEL chain with 7 adjustments 100mm to 400mm. With a range of brackets this unit offers a solution for every application.
Buzzer fitted to indicate wrong installation.
Available 230v and 24v, Black, Silver, White Brown and Unpainted.
Available as a USA synchronised kit offering up to 2 actuators working in unison.

C20 Breeze Control
This slimline actuator is available in 24v and 230v and is designed for the domestic market.
This unit offers 200n and adjustable chain settings at 240mm and 360mm, simple installation via a quick fit window connection and no adjustment of chain on closing action.
Available in Black, White and Silver.
The C20 now has a tandem connection.

C30 Control
This 300n actuator offers a simple quick fit installation to window, an acoustic indication device to ensure correct fitting, internal adjustment of 15mm at chain exit.
Double insulation, and chain settings of 200mm and 380mm.
This unit offers a quick simple and inexpensive solution. Available as a USA synchronised unit offering up to 2 actuators working in unison.
Available in Black, White and Silver, 230v and 24v.

C40 Control
This unit offers a powerful 400n motor and chain length of 500mm with 7 position adjustments.
Simple quick fit connection to window, and end stroke current absorption avoids adjustments during closing action and avoids possible positioning errors of the actuator. An electronic device for traction force control allows speed reduction during the last 100mm of stroke.
Available in Black, White and Silver, 230v and 24v.

LINEAR ACTUATORS

T80 Rack Actuator
This powerful 800n Rack actuator has a maximum stroke of 1000mm tested to IP55 tilting self aligning movement this unit comes complete with brackets and accessories.
Racks available in 180, 230, 350, 550, 750 and 1000mm. This unit is also pre set for the mechanical connection of two more push points.
Available in 24v and 230v.

T50 Rack Actuator
This powerful 800n Rack actuator has a maximum stroke of 1000mm tested to IP55 tilting self aligning movement this unit comes complete with brackets and accessories.
Racks available in 180, 230, 350, 550, 750 and 1000mm. This unit is also pre set for the mechanical connection of two more push points.
Available in 24v and 230v.

SL60 Control
A linear motor with 600n thrust and pushing bars in 5 lengths 180mm, 230mm, 350mm, 550mm and 760mm.
This unit offers a fast and easily adjustable fitting bracket, double installation and testing to IP55. Available in 24v and 230v.

PP6 Linear Motor
This linear actuator has a 230v motor and 300mm stroke. An inexpensive linear actuator which is simple to use and install, complete with bracket.
CONTROL SYSTEMS

TR8 Radio Control and TF Control Unit

DOMESTIC CONTROL SYSTEMS

CONTROLS TO ENHANCE YOUR HOME

Simple to use and easy to install. Clearline can offer two different control units that have been designed specifically to operate the Mac and C20. Each unit can operate up to 6 actuators and comes complete with Rain sensor.

> Easy Line

This smaller compact unit allows temperature setting by a simple central revolving switch, which can also act as a manual override to open and close the windows. The temperature probe is located on the unit. An optional extra probe available should the unit and probe need to be positioned in different areas. The rain sensor will close the windows when activated and a remote control can be purchased to operate with this unit.

As an added feature two units can be fitted together, each operating 6 actuators but from one remote containing two push buttons. Built to fit a single socket.

> Digital Line

The digital unit displays the room temperature and comes complete with a remote probe, this will automatically control the opening and closing of the windows in line with the pre set temperature, the rain sensor will close the windows when activated. This unit also has a manual override. Built to fit a double socket. The digital unit will operate up to 6 Macs or 6 C20 actuators. Buttons. Built to fit a single socket.

> Simplicity

Small compact battery operated chain opener design for top hung windows. Ideal for the home with DIY installation.

- 4 AA Batteries operate this unit for approx. 12 months.
- Low battery indication and returns to closed position
- Simple to use
- Maximum opening 120mm
- Pulling force 150N
- Transmission infra red
- Full installation instructions

For full technical data and drawings, visit our web site: www.clearlinearchitectural.com

TF RANGE

This compact range of control units offers a variable range of units to control the Mac, SL, C20, C30 and C40 at 230v and 24v. With exits for rain, wind and light sensors all pre-set to take TR8 Radio Control.

TF RANGE OPTIONS

> TF21 Operates

1 C20 @ 24 volt
Built in transformer.

> TF24 Operates

4 C20 @ 24 volt
1 C30 @ 24 volt
1 C40 @ 24 volt
1 Mac @ 24 volt
Built in transformer.

> TF41 Operates

2 C20 @ 230 volt
4 Mac @ 230 volt
4 C30 @ 230 volt
5 C40 @ 230 volt
4 SL60 @ 230 volt.

> TF44 Operates

8 C20 @ 230 volt
16 Mac @ 230 volt.
16 C30 @ 230 volt.
20 C40 @ 230 volt.
16 SL60 @ 230 volt.
Certificate No 31416
Applies to all Products manufactured at
Morse Basildon

Manual and electronic window openers

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Basildon Essex SS14 3ES England
Phone: 01268 522861

www.clearlinearchitectural.com