



Product Controller	Type	Items
	Climate Ready® EB2 D	Product Information and installation

Description The Climate Ready® EB2 D Controller is a two motor controller that operates facade element/s for eg. shading systems, ventilation systems and other motorised systems. Apart from Horiso Smart Motor Control software (basic), the EB2 D is unique with software that is shading specific ST[a]ARS (for roller blinds) and ST[a]ATS (for venetian blinds and louvers). It allows a highly precise adjustment to the shading system according to an astrophysical Solar Path Calculus. In addition to controlling two motors, each controller is capable of accepting six dry contact inputs. Optional Control Point modules allow for the addition of sensors and A/V system integration. The Climate Ready® EB2 D Controller can operate stand-alone, networked and / or dynamic using BACnet MS/TP.

Application The Climate Ready® EB2 D Controller positions facade element/s based on input from:

- Users** - wall switches or a Building Manager Software.
- Solar Path Calculus with FIM (Facade Intelligence Modelling)** - solar tracking based on building location, distance, height and facade orientation.
- Sensors** - including sun, wind, temperature and occupancy.
- BMS or A/V Systems** - BACnet MS/TP, Modbus RTU or dry contact.
- Scheduling** - any operational parameter can be scheduled to meet specific shading needs.

Technical data	
Supply voltage	110 - 240 VAC at 50 / 60 Hz
Dimensions	Length - 180 mm / Width - 90 mm / Height - 40 mm
Output	2 x 240 VAC (max. 3A each)
Digital inputs	6 x Dry Contacts Input (normally open, momentary or latched)
Data Network	BACnet MS/TP at max. 115,200 bps - (max. 127 devices per segment)
Rating	UL Certified
Environmental	0 - 55°C at 0 - 95% RH (non-condensing)
USB Connection	Micro USB connection for data connection and USB switch expansion
Switch connection	3-pin degson screw terminal
Power connection	Hirschmann 3-pin male and female connectors.

INFORMATION SHEET - Climate Ready® EB2 D - Hardwired Dynamic Shade Controller

Connectors	Connector	Connector Type	Cable Required
	Power input	Hirschmann connector (male)	3 conductor (2+ ground) 14 AWG max + Hirschmann connector (female)
	Motor output 1-2	Hirschmann connector (female)	4 conductor (3+ ground) 14 AWG max + Hirschmann connector (male)
	Network 1-2	Screw terminal	CAT 6
	Digital inputs 1-3	Screw terminal	CAT 6
	Universal Serial Bus (USB)	Macro USB connector	Standard USB adaptor cable

LED Indicators	Name	Colour	Indication
	Power	Blue	Power is connected to the unit
		Off	Power is not connected to the unit
	Status	Red	Solid: No valid program Blinking: Error condition exists
		Off	Unit functioning normally
	Network	Yellow	Activity on the network
		Off	No activity on the network
	Switches	Yellow	Solid: A dry contact is currently closed Status light is red, switches will control on motors, otherwise switches are disabled

Buttons	Button	Function
	Motor 1 reverse	Signals motor 1 to move
	Motor 1 forward	Signals motor 1 to move
	Function	Initiates various functions
	Motor 2 reverse	Signals motor 2 to move
	Motor 2 forward	Signals motor 2 to move