

Interface Specification

<i>Vendor</i>	<i>Interface</i>	<i>Baud Rate</i>	<i>Data Bits</i>	<i>Parity</i>	<i>Stop Bits</i>	<i>Flow Control</i>
Embedia Technologies Corp.	RS-232	300 – 115,200	8, 7, 5	None, Even, Odd	1, 1.5, 2	None, Hardware, XON/XOFF

Controlling Shades

The following ASCII string can be used to control the shades:

<i>Start</i>	<i>Address</i>	<i>Function</i>	<i>Data</i>	<i>LRC</i>	<i>End</i>
1 char	2 chars	2 chars	8 chars	2 chars	2 chars
:	XX	06	000100YY	--	CR, LF

XX = The address for the shade group. These will be provided when the controls are commissioned.

YY = One of the following command codes:

Extent Command	Code		Tilt Command	Code
Stop	28			
Extend	4E		Tilt Closed	16
Retract	4B		Tilt Open	1A
Next Preset	4F		Next Preset	07
Previous Preset	50		Previous Preset	04
Preset 1	1E		Preset 1	3A
Preset 2	1F		Preset 2	3B
Preset 3	20		Preset 3	3C
Preset 4	21		Preset 4	3D
Preset 5	22		Preset 5	3E
Preset 6	23		Preset 6	3F
Preset 7	24		Preset 7	40
Preset 8	25		Preset 8	41
Preset 9	26		Preset 9	42
Preset 10	27		Preset 10	43
Clear Override	4C			

For example, shade group 5 is moved fully extended with the following string:

:05060001004E--<CR><LF>

Reading Sensor Levels

The following ASCII string can be used to read sensor levels from the ControlPoint:

<i>Start</i>	<i>Address</i>	<i>Function</i>	<i>Data</i>	<i>LRC</i>	<i>End</i>
1 char	2 chars	2 chars	8 chars	2 chars	2 chars
:	XX	03	00010001	--	CR, LF

XX = The address for the sensor to read. These will be provided when the controls are commissioned.

The reply from the ControlPoint will be of the following format:

<i>Start</i>	<i>Address</i>	<i>Function</i>	<i>Length</i>	<i>Data</i>	<i>LRC</i>	<i>End</i>
1 char	2 chars	2 chars	2 chars	4 chars	2 chars	2 chars
:	XX	03	02	YYYY	ZZ	CR, LF

XX = The address for the sensor.

YYYY = The level of the sensor.

ZZ = The LRC checksum.

The meaning of the sensor level will mean different things depending on the type of sensor being monitored. The following are typical meanings of common sensor types:

<i>Sensor Type</i>	<i>Level Value</i>	<i>Meaning</i>
Brightness	0000	Cloudy
	0001	Sunny
Wind	0000	Calm
	0001	Windy
	0002	Very Windy
Precipitation	0000	Raining
	0001	Not Raining