Serial Protocol for WandererCover V4-EC and V4-EC IR (Firmware version 20250506)

Baud rate: 19200
Data bits: 8
Parity: None
Stop bits: 1

Action	Command	Example
Open cover	1001	
Close cover	1000	
Set flat panel brightness	1-255	100 for PWM level of 100
Turn off the flat light	9999	
Set the open position of the cover x	40000+ x*100	67000 for open position of 270°
Set the close position of the cover x	10000+ x*100	12055 for close position of 20.55°
Automatically detect open position	100001	
Automatically detect close position	100000	
Dew heater OFF	2000	
Dew heater LOW	2050	
Dew heater HIGH	2100	
Dew heater MAX	2150	
Enable ASIAIR control	1500003	
Disable ASIAIR control	1500004	
Set custom brightness 1 for ASIAIR control	1000000+Brightness	
Set custom brightness 2 for ASIAIR control	2000000+Brightness	
Set custom brightness 3 for ASIAIR control	3000000+Brightness	

WandererCover V4-EC continues transmitting status info to the COM port, this also helps users to identify whether the COM port belongs to the WandererCover V4-EC. The status info has the following format:



The definition are as follows:

	Definition	Note
1	Firmware version	YYYYMMDD
2	Close position set (°)	xx.xx
3	Open position set (°)	xx.xx

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4	Current position (°)	xx.xx
5	Input voltage (V)	xx.xx
6	Flat panel brightness	0-255
7	Dew heater power	0(OFF) 50(Low) 100(Mid) 150(High)
8	If ASIAIR control is enabled	0(Disabled) 1(Enabled)