Serial Protocol for WandererBox Plus V3

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

Action		Command	Example
Current sense calibration		66300744	
DC2 (Adjustable regulated output)	ON	121	
	OFF	120	
Set voltage for DC2 (5V to 13.2V)		20000+voltage*10	20132 for 13.2 V output
DC3 (255 levels PWM)	ON	3000+PWM level	3255 for fully on
	OFF	3000	
DC4-6	ON	101	
	OFF	100	
USB	ON	111	
	OFF	110	

WandererBox Plus V3 continues transmitting status info to the COM port, this also helps users to identify whether the COM port belongs to the WandererBox Plus V3. The status info has the following format:

The definition are as follows:

	Definition	Remark
1	Firmware version	
2	Temperature reading from temperature probe	The value is -127 when the probe is not connected
3	Humidity reading from DHT22 sensor	It shows “nan” when sensor not connected
4	Temperature reading from DHT22 sensor	
5	Input current (A)	
6	Input voltage (V)	
7	USB status	1 for ON and 0 for OFF
8	DC2 status	1 for ON and 0 for OFF
9	DC3 status	0-255
10	DC4-6 status	1 for ON and 0 for OFF

For technical support, please contact: skywatcherwsl2000@gmail.com

11	DC2 voltage set	Voltage*10

EXAMPLE 1:

ZXWBPlusV3A20230926A23.94A36.90A24.70A0.26A12.11A1A1A100A1A132A

It indicates that the firmware version is 20230926, the temperature from the probe is 23.94℃, humidity from DHT22 sensor is 36.9%, temperature from the DHT22 sensor is 24.7℃, input current is 0.26A, input voltage is 12.11V, USB ports and DC2 are ON, DC3 is set to PWM level of 100, DC4-6 is ON and the output voltage for DC2 is set to 13.2V.

EXAMPLE 2:

ZXWBPlusV3A20230926A-127.00AnanAnanA1.23A12.52A0A1A0A1A75A

It indicates that the firmware version is 20230926, temp probe and DHT22 sensor not connected, input current is 1.23A, input voltage is 12.52V, USB ports are OFF and DC2 is ON, DC3 is set to PWM level of 0 (OFF), DC4-6 is ON and the output voltage for DC2 is set to 7.5V.