

# Pegasus Astro

## Pocket Powerbox Serial Command Language

Firmware >=v.1.1 (Aug 2018)

### Abbreviations used:

nnnn.. = one or more digits  
b = Boolean (0 or 1 digit)

Connection Settings: 9600, 8N1  
(All commands should be terminated by new line /n)

| Command | Description   | Response            |
|---------|---|---------------------|
| P#      | Status  | PPB_OK              |
| PE:bbbb | Set Power Status on boot. Every number represents 1-4 power outputs. (0=OFF, 1=ON). | PE:1                |
| P1:b    | ON/OFF Power 4x12V Outputs , (0=OFF, 1=ON)  | P1:b                |
| P2:b    | ON/OFF Power 8V DSLR, (0=OFF, 1=ON)   | P2:b                |
| P3:nnn  | PWM Duty Cycle Power 5 (DewA)<br>X=0-255 (0-100%)                                   | P5:nnn              |
| P4:nnn  | PWM Duty Cycle Power 6 (DewB)<br>X=0-255 (0-100%)                                   | P6:nnn              |
| PF      | Reboot Device / Reload Firmware   | [none]              |
| PA      | Print Power and Sensor Readings   | [Check table below] |
| PD:b    | Enable/Disable Auto Dew Feature (X=0,1)   | PD:b                |
| PV      | Firmware Version  | n.n                 |
| PL:b    | OF/OFF Led Indicator (0=OFF, 1=ON)  | PL:b                |

Transmit: PA

Receive: PPB:12.2:0.5:22.2:45:17.2:1:1:120:130:1

Meaning:

PPB:voltage:current:temp:humidity:dewpoint:quadport\_status:dslrout\_status:dew1:dew2:autodew\_bool

| PPB             | Device Name  |
|-----------------|--|
| Voltage         | Voltage in volts (decimal) e.g 12.2  |
| Current         | Quad 12V output sens current 0-1024 (need to convert to Amps by dividing by 600) |
| Temp            | Temp in Celsius Degrees (decimal) e.g 23.2                                       |
| Humidity        | Relative Humidity in % (decimal) e.g 59  |
| Dewpoint        | Dewpoint in Celsius Degrees (decimal) e.g 14.7                                   |
| quadport_status | Boolean 0 or 1 (1 means port is ON, 0 means port is OFF)                         |
| dslrout_status  | DSLR 8Volt Output. Boolean 0 or 1 (1 means port is ON, 0 means port is OFF)      |
| Dew1            | Power Dew1 duty cycle 0-255  |
| Dew2            | Power Dew1 duty cycle 0-255  |
| Autodew_bool    | Boolean for autodew function: 0 is OFF, 1 is ON                                  |

