

1012 WSPR-TX_Desktop Serial API

PC User config Set or Get commands

| Description | Send | Set/Get | Data [8..] | Data |
|---------------------------------|-------|---------|--|---|
| Cmd CurrentMode | {CCM} | S/G | Text 1 S=Sig, W=WSPR, N=None | |
| Cmd User Config Store in EEPROM | {CSE} | S | | |
| Opt TX Pause | {OTP} | S/G | Text 5 0-99999 Minutes | |
| Opt StartMode | {OSM} | S/G | Text 1 S=Sig, W=WSPR, N=None | |
| Opt Band TX Enable | {OBD} | S/G | Text 2+space+Text 1 . Text2=Band Enum. Text1 E/D E=Enable, D=Disable | |
| Opt Location | {OLC} | S/G | Text 1. G=GPS calculated, M=Manual (DL4 data) | |
| Dat CallSign | {DCS} | S/G | Text 6 | |
| Dat Locator 4 | {DL4} | S/G | Text 4 | |
| Dat PowerData | {DPD} | S/G | Text 2 (00 to 60) dBm | |
| Dat Name | {DNM} | G | Text 40 | Not implemented |
| Dat Generator Freq | {DGF} | S/G | Text 12 (000000000000 to 999999999999)Centi Hertz | |
| Debug Set LP Filter | {CSL} | S | Text 1. Text1=A,B,C or D for LP bank. | LP filters are automatically set by the WSPR Beacon and Signal Gen. routines but can be temporarily overridden by this command for testing purposes |

PC Factory config Set or Get commands

| Description | Send | Set/Get | Data [8..] | Data |
|--|-------|---------|--|---|
| Factory Product model Number | {FPN} | G | Text 5 0-65534 | 1011=WSPR-TX_LP1, 1012=WSPR Desktop, 1017=WSPR Mini |
| Factory Hardware Version | {FHV} | S/G | Text 3 0-255 | |
| Factory Hardware Revision | {FHR} | S/G | Text 3 0-255 | |
| Factory Software Version | {FSV} | G | Text 3 0-255 | |
| Factory Software Revision | {FSR} | G | Text 3 0-255 | |
| Factory Reference Oscillator Frequency | {FRF} | S/G | Text 9 (000000000 to 999999999)Hz | Normally 026000000 |
| Factory Low Pass Filter installed | {FLP} | S/G | Text 1+space+Text 2. Text1=A,B,C or D for LP bank. Text2=00 to 15 for band. 98=just a link between input and output, 99=Nothing fitted (open circuit) the firmware will never use this | |
| Cmd FactoryConfig Store in EEPROM | {FSE} | S | | |

Arduino replies for Get commands

| Description | Return | Data | Data |
|--------------------|--------|---|----------------------------|
| Cmd CurrentMode | {CCM} | Text 1 S=Sig, W=WSPR, N=None | |
| Opt TX Pause | {OTP} | Text 5 0-99999 Minutes | |
| Opt StartMode | {OSM} | Text 1 S=Sig, W=WSPR, N=None | |
| Opt Band TX Enable | {OBD} | Text 2 Enum band | Text 1 E=Enable, D=Disable |
| Opt Location | {OLC} | Text 1. G=GPS calculated, M=Manual (DL4 data) | |
| Dat CallSign | {DCS} | Text 6 | |
| Dat Locator 4 | {DL4} | Text 4 | |
| Dat PowerData | {DPD} | Text 2 (00 to 60) dBm | |
| Dat Name | {DNM} | Text 40 | |
| Dat Generator Freq | {DGF} | Text 12 (000000000000 to 999999999999)mHz | |

Arduino Status update messages (Can be sent at anytime, they are not in respons to a get command query)

| Description | Return | Data | Data |
|-----------------------------|--------|--------------------------------|------|
| Current Mode | {CCM} | Text 1 S=Sig, W=WSPR, N=None | |
| GPS locator | {GL4} | Text 4 | |
| GPS Time | {GTM} | Text 8 HH:MM:SS | |
| GPS Lock | {GLC} | Text 1 T=True F=False | |
| Transmitter Frequency | {TFQ} | Text 5-12 0-terminated centiHz | |
| Transmitter On | {TON} | Text 1 T=True F=False | |
| Microcontroller Paus | {MPS} | Text 7 0-4,000,000Seconds | |
| Microcontroller Information | {MIN} | Text | |
| Low Pass filter set | {LPI} | Text 1 A-D | |