TWT Jetting Grid, Arduino serial commands

ASCII commands   **Action**

Reporting

id?	Report device identity
pos?	Report current protocol position (index starts at 1)
proto?	Report current protocol info, newline delimited: - protocol name - N_lines
?	Report readings, tab delimited: - protocol_pos (index starts at 1) - pres_#_mA - pres_#_bar

Control

upload	Upload a new protocol from the PC into Arduino memory
play	Play the protocol and automatically actuate valves over time
stop	Stop the protocol and close all valves immediately
pause	Pause the protocol keeping the last actuated state of the valves
,	"<" Go to the previous line of the protocol and immediately activate the valves
.	">" Go to the next line of the protocol and immediately activate the valves
goto *idx_line*	Go to the specified line number (index starts at 1) of the protocol and immediately activate the solenoid valves
preset0	Load protocol preset: All valves open
preset1	Load protocol preset: Walk over each single valve
preset2	Load protocol preset: Alternate 50/50 checkerboard pattern
preset3	Load protocol preset: Alternate 50/50 between even- and odd-numbered valves

Debugging

b?	Report current line buffer contents
fsm?	Report current Finite State Machine state name
halt?	Trigger a halt
override_safety	WARNING: Will override enable the jetting pump, regardless of whether any valves are actually open or not. This function should be used for troubleshooting only.
restore_safety	Revert back from the "override_safety" command: Restore the regular safety procedure to enable the jetting pump only when at least one valve is open.