

TWT Jetting Grid, Arduino serial commands

ASCII commands

Action

Additional reply

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 immediately close all valves	Current protocol position `pos`
pause	Pause the protocol keeping the last actuated states of the	Current protocol position `pos`
,	"<" Go to the previous line of the protocol and immediately activate valves	Current protocol position `pos`
.	">" Go to the next line of the protocol and immediately activate valves	Current protocol position `pos`
goto <i>idx_line</i>	Go to the specified line number (index starts at 1) of the protocol and immediately activate valves	Current protocol position `pos`
preset0	Load protocol preset: All valves open	
preset1	Load protocol preset: Walk over each single valve	
preset2	Load protocol preset: Alternating checkerboard	
preset3	Load protocol preset: Alternating even/odd valves	
preset4	Load protocol preset: Walk over each manifold	

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.