

TWT Jetting Grid, Arduino serial commands

ASCII commands	Action	Additional reply
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Reporting

id?	Report device identity
pos?	Report current protocol position (index starts at 1)
p?	Report current protocol info, tab 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	{pos}
pause	Pause the protocol keeping the last actuated states of the valves	{pos}
,	"<" Go to the previous line of the protocol and immediately activate valves	{pos}
.	">" Go to the next line of the protocol and immediately activate valves	{pos}
goto <i>idx_line</i>	Go to the specified line number (index starts at 1) of the protocol and immediately activate valves	{pos}
preset0	Load protocol preset: Open all valves	
preset1	Load protocol preset: Walk over all valves	
preset2	Load protocol preset: Walk over all manifolds	
preset3	Load protocol preset: Alternating checkerboard	
preset4	Load protocol preset: Alternating even/odd valves	

Debugging

b?	Pretty print the current line buffer contents
proto?	Pretty print the full protocol program
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.