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 close all valves immediately	Current protocol position `pos`
pause	Pause the protocol keeping the last actuated state of the valves	Current protocol position `pos`
,	"<" Go to the previous line of the protocol and immediately activate the valves	Current protocol position `pos`
.	">" Go to the next line of the protocol and immediately activate the valves	Current protocol position `pos`
goto *idx_line*	Go to the specified line number (index starts at 1) of the protocol and immediately activate the solenoid 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.	