

SERIAL PORT (RS-232) TECHNICAL INTERFACE GUIDE ORBITAL SHAKERS

SERIAL PORT SETTINGS: BAUD RATE - 1200 DATA BITS - 8 NO PARITY STOP BIT - 1 FLOW CONTROL - NONE					
STARTUP: When the shaker is new the command ' I=* ' may be needed to take it out of index mode.					
COMMAND LIST	FORMAT	NOTES:			
		4 DIGITS ARE			
		ASCII SPEED IN			
Input Speed Set Point and start motor	'S' + 4 DIGITS	RPM			
		SINGLE LETTER			
2. Stop motor	'O'	COMMAND			
		4 DIGITO ADE			
		4 DIGITS ARE			
		ASCII MINUTES,			
		2 DIGITS ARE			
3. Set timed mode and load time, starting timer	'N' + 4 DIGITS + 2 DIGIT	S ASCII SECONDS			
4. Set continuous mode, loading 0 for time, start timer	<u>'C'</u>				
5. Stop timer & reset to set point value	'A'	4 DIOITO ADE			
		4 DIGITS ARE			
		ASCII			
		TEMPERATURE			
6. Input Temperature Set point and start heater	'K' + 4 DIGITS	IN DEGREES C			
7. Stop Heater Operation	'Z'				
		Response is NM followed by 4 digits for minutes and 2 digits for seconds showing current time on display, followed by SM followed by 4 digits for measured speed, followed by KM followed by 4 digits for measured temperature, followed by N followed by 6 digits for setpoint time, followed by S followed by 4 digits for setpoint speed, followed by K followed by 4 digits for setpoint speed, followed by K followed by 4 digits for setpoint temperature, followed by the letter R or S depending on whether the motor is running, or stopped, followed by the letter H or S depending on whether the			
8. Dump all parameters	'U'	heater is heating or stopped.			
		3 DIGITS ARE			
		ASCII REPORT			
		COMMAND IN			
9. Report (parameter output frequency)	'R' + 3 DIGITS	SECONDS			
		2 digits set unit #			
10. Set Index number	'I=' + 2 DIGITS	at 0 to 99			
		* says indexing is			
11. Clear Index number	'l=*'	turned off			