Diamond RS232 control settings and commands:

RS232 is permanently fixed at 4800 baud, Even Parity, and Hardware Handshaking and requires 7 data bits and 1 stop bit

A Null Modem Cable is required for RS232 communication with the Diamond.

Command to set the Diamond into RS232 control: ****REMOTE**

Command	Parameter	Response of circulator
out_mode_05	0	Stop the unit = R –OFF-.
out_mode_05	1	Start the unit.
out_sp_00	xxx.xx	Set working temperature.
version	none	Number of software version (V X.xx)
status	none	Status message, error message
in_pv_00	none	Actual bath temperature.
in_pv_01	none	Heating power being used (%).
in_pv_02	none	Temperature value registered by the external Pt100 sensor.
in_pv_03	none	Temperature value registered by the safety sensor.
in_sp_00	none	Working temperature
IN_SP_06	none	Temperature indication in °C or °F
in_mode_05	none	Circulator in Stop/Start condition: 0 = Stop 1 = Start

Command to download information from the Datalogger memory: ****DATALOGGER_OUT**

A transfer sequence consists of:

- command
- space (⇔; Hex: 20)
- parameter (decimal separation with a period)
- end of file (↵; Hex: 0D)

out commands: Setting temperature values or parameters.

in commands: Asking for parameters or temperature values to be displayed.