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RS232 Protocol

LDD-150/250/600/1000/1500-RS

The RS232 interface for Lumina supplies has the following characteristics:

Baud rate: 9600

Command format: ASCII characters terminated by carriage return

Reply formats: ASCII characters terminated by carriage return

Connection: 9 Pin "D" Female (Tx: Pin 2, Rx: Pin 3, GND: Pin 5)

The interface supports programming the output current and power limit of the supply and reading back the output current and voltage. The output can be turned on and off with a command as well.

<u>Command</u>	<u>Reply</u>	<u>Function</u>
Pxx.xx<cr>	<cr>	Program output current to max rated output current xx.xx between 0 and 10.00 = 0 – Iout _{max}
I<cr>	xx.xx<cr>	Read output current xx.xx between 0 and 10.00 = 0 – Iout _{max}
V<cr>	xx.xx<cr>	Read output voltage xx.xx between 0 and 10.00 = 0 – Vout _{max}
ON<cr>	<cr>	Enable supply output
OFF<cr>	<cr>	Disable supply output
Jhkhkh<cr>	?<cr>	Response to unrecognized command

Numbers sent to the supply should be in fixed point decimal format. The numbers sent back will have four digits and a decimal point, but the resolution is limited to 12 bits and the accuracy is limited by the specifications of the supply.

LDD Interface with RS-232 Option

Connector Type: 15 pin D-sub Female

Pin #	Pin Name	Functional Voltage Level	Description
3	Interlock (input)	Open = OFF Connect to GND = RUN (Must be grounded for power supply operation)	The Interlock function can be connected to external interlock switches such as door or overtemp switches.
4	GND		Referred to (-) output of power supply.
8	N/C		
9	GND		Referred to (-) output of the power supply.
10,11	+5V @ 0.5A (output)		Auxiliary +5V power supply for user. Up to 0.5A output current capability.
12	-15V @0.5A (output)		Auxiliary -15V power supply for user. Up to -0.5A output current available.
13,14	+15V @0.5A (output)		Auxiliary +15V power supply for user. Up to 0.5A output current available.
15	Gnd		Referred to (-) output of the power supply.