

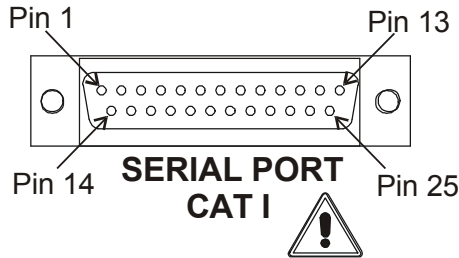


TREK, INC.
 190 Walnut Street
 Lockport, NY 14094 USA

1 800 FOR-TREK (367-8735)
 Tel: (716) 438-7555
 Fax: (716) 201-1804
 www.trekinc.com

Model 156A/1 Serial Commands

Peter McAnn November 1, 2000



D25 Serial Pin Readouts

D-Type 25-Pin No.	Abbreviation	Full Name
Pin 2	TD	Transmit Data
Pin 3	RD	Receive Data
Pin 4	RTS	Request To Send
Pin 5	CTS	Clear To Send
Pin 6	DSR	Data Set Ready
Pin 7	SG	Signal Ground
Pin 8	CD	Carrier Detect
Pin 20	DTR	Data Terminal Ready
Pin 22	RI	Ring Indicator

The commands sent over the serial port to the Model 156A/1 are of a form of either a 3 or 6 character string. The characters are always lower case and will always garner a 2 character response from the Model 156A/1. The setup of the serial port is as follows:

- 8 data bits
- 1 stop bit
- No parity
- 57600 baud rate

The responses from the Model 156A/1 are always marked by one of two responses. They are an "OK" or "er". The "OK" response indicates that the command was understood, data might follow, in which case certain commands will respond with data followed by an "OK" statement. What follows is a summary of the commands.

Model 156A/1 Serial Commands (cont.)

Command	Description	Model 156A/1 Response
tx1	Start to transmit data	“OK(high byte)(low byte) (high byte)(low byte).....” Data starts to come, in a binary fashion (16 bit signed Integer), after receipt of “OK”
tx0	Stop data transmission	“OK”
rst	Resets Model 156A/1	“OK”
fl2345	Fast Data Transmission	This is the command to enter the “Fast Data” collection mode. Bytes “1234” are the number of data points to gather, in binary fashion(32 bit unsigned interger). The byte “5” is the timing byte. A binary 0=10ms between data points A binary 1=3.3ms between data points A binary 2=1.66ms between data points A binary 3=3.33ms between data points A binary 4=833us between data points An “OK” will be sent after receipt of command And again after all of the data is transmitted. For example, “OK(high byte)(low byte)..... (high byte)(low byte)OK”.
gtv	Get Start and Stop voltages	This command responds with an “OK” and then with 4 bytes and then with “OK”. The first two bytes returned are the start voltage (high byte, low byte) then the next 2 bytes are the stop voltage (high byte, low byte).
vt1234	Set start and stop voltages	This command responds with an “OK”. Bbytes “1” and “2” set the start voltage with byte “1” the binary high byte and bye “2” the binary low byte. Bbytes “3” and “4” set the start voltage with byte “3” the binary high byte and bye “4” the binary low byte.
md1	Set the operating mode	This command responds with an “OK”. Byte “1” is a Binary number that sets the mode. A binary 0= Float Mode A binary 1= +Decay Mode A binary 2= -Decay Mode A binary 3= Manual Mode

