



## Command Instructions and List

- Input commands in upper or lower case letters and register commands by pressing Enter key.
  - MicroCAT sends an error message if invalid command is entered.
  - If system does not return `S>` prompt after executing a command, press Enter key to get `S>` prompt.
  - If new command is not received within 2 minutes after completion of a command, MicroCAT returns to quiescent (sleep) state.
  - If in quiescent (sleep) state, re-establish communications by selecting Connect in SeatermIM's Communications menu.
- Shown below are the commands used most commonly in the field. See the Manual for complete listing and detailed descriptions.

FUNCTION	CATEGORY	COMMAND	DESCRIPTION	
SIM Commands	Power-On	<b>PwrOn</b>	Send wakeup tone to <b>all</b> IMs.	
		<b>PwrOff</b>	Send power off command to <b>all</b> IMs. Logging and memory retention unaffected.	
		<b>AutoPwrOn=x</b>	<b>x=Y</b> : Send <b>PwrOn</b> to IMs when power applied to SIM. <b>x=N</b> : do not.	
	Status	<b>DS</b>	Display SIM firmware version and status.	
	Communications	<b>Baud=x</b>	<b>x=</b> baud from SIM to computer (1200, 2400, 4800, or 9600). Default 9600.	
		<b>DataNNMax=x</b>	<b>x=</b> timeout that applies to <b>Dataii</b> ; default 1000 milliseconds.	
		<b>RelayMax=x</b>	<b>x=</b> timeout that applies to all other commands; default 20 seconds.	
<b>EchoOn</b>		Echo characters received from computer.		
	<b>EchoOff</b>	Do not echo characters received from computer.		
MicroCAT Communications Microcontroller Commands ( <b>ii</b> = MicroCAT ID)	Global	<b>DateTime=mmddyyyyhhmmss</b>	Set <b>all</b> real-time clocks: month day year hour minute second.	
		<b>ResumeLogging</b>	Simultaneously command <b>all</b> MicroCATs to start logging.	
		<b>GData</b>	Command <b>all</b> communication microcontrollers to get average data from acquisition units, hold in buffer, and start next averaging cycle.	
		<b>StayOn</b>	Command <b>all</b> MicroCATs to reset counting for 2-minute timeout.	
	Get data	<b>!iiData</b> or <b>Dataii</b>	Get data obtained with <b>GData</b> from MicroCAT with ID= <b>ii</b> .	
	MicroCAT ID	<b>ID?</b>	Get MicroCAT ID (0-99).	
		<b>*ID=ii</b>	Set ID to <b>ii</b> ( <b>ii</b> =0-99). Only 1 MicroCAT can be on line. Must be sent twice.	
	Firmware	<b>!iiGetHD</b>	Get and display hardware data.	
		<b>!iiDS</b>	Display MicroCAT communication microcontroller firmware version.	
	MicroCAT Acquisition Microcontroller Commands ( <b>ii</b> = MicroCAT ID)	Status	<b>#iiGetCD</b>	Get and display configuration data.
<b>#iiGetSD</b>			Get and display status data.	
<b>#iiGetCC</b>			Get and display calibration coefficients.	
<b>#iiGetEC</b>			Get and display event counter data.	
<b>#iiResetEC</b>			Reset event counter.	
<b>#iiGetHD</b>			Get and display hardware data.	
<b>#iiDS</b>			Display status.	
General Setup		<b>#iiDC</b>	Display calibration coefficients.	
		<b>#iiDateTime=mmddyyyyhhmmss</b>	Set real-time clock month day year hour minute second.	
		<b>#iiBaudRate=x</b>	<b>x=</b> baud rate (600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 94 115200) for communicating in Serial Mode (through internal RS-232 connector).	
		<b>#iiOutputExecutedTag=x</b>	<b>x=Y</b> : output XML Executed and Executing tags. <b>x=N</b> : do not.	
Memory Setup		<b>#iiReferencePressure=x</b>	<b>x=</b> reference pressure (decibars) (for MicroCAT without pressure sensor).	
		<b>QS</b>	Place MicroCAT in quiescent (sleep) state; for use in Serial mode only.	
		<b>#iiInitLogging</b>	Initialize logging, setting memory pointer to 0.	
Output Format Setup		<b>#iiSampleNumber=x</b>	<b>x=</b> sample number for first sample when logging begins.	
		<b>#iiOutputFormat=x</b>	<b>x=0</b> : output converted hex data. <b>x=1</b> : output converted decimal data. <b>x=2</b> : output converted data, alternate format. <b>x=3</b> : output raw decimal data. <b>x=4</b> : output converted decimal data, XML.	
		<b>#iiCompatibleMode=x</b>	<b>x=Y</b> : Output data compatible with firmware < 3.0. <b>x=N</b> : do not.	
		<b>#iiTxHexTime=x</b>	<b>x=Y</b> : Output date and time with hex data. <b>x=N</b> : do not.	
Autonomous Sampling (logging)		<b>#iiTxSampleNum=x</b>	<b>x=Y</b> : Output sample number with data. <b>x=N</b> : do not.	
		<b>#iiSampleInterval=x</b>	<b>x=</b> interval between samples (6 – 21,600 seconds).	
		<b>#iiStartNow</b>	Start logging now. Data stored in FLASH memory.	
		<b>#iiStartDateTime=mmddyyyyhhmmss</b>	Delayed logging start: month day year hour minute second.	
		<b>#iiStartLater</b>	Start logging at delayed start time. Data stored in FLASH memory.	
		<b>#iiStop</b>	Stop logging or waiting to log.	
		Polled Sampling (data not stored in FLASH memory unless noted; format specified by <b>#iiOutputFormat</b> = unless noted)	<b>#iiITS</b>	Take sample, output data.
			<b>#iiTSR</b>	Take sample, output <b>raw</b> data.
			<b>#iiTSH</b>	Take sample, do not output data.
			<b>#iiTSS</b>	Take sample, <b>store in FLASH memory</b> , output data.
<b>#iiTSn:x</b>			Take <b>x</b> samples and output data.	
<b>#iiSL</b>			Output last sample.	
<b>#iiSLT</b>			Output data from last sample, then take new sample.	
Data Upload		<b>#iiSLTR</b>	Output <b>raw</b> data from last sample, then take new sample.	
		<b>#iiDNx</b>	Upload last <b>x</b> scans from memory; can send while logging	
	<b>#iiGetSamples:b,e</b>	Upload data from scan <b>b</b> to <b>e</b> . Send <b>#iiStop</b> before sending.		
	<b>#iiDDb,e</b>	Upload data from scan <b>b</b> to <b>e</b> . Send <b>#iiStop</b> before sending.		