

Hangzhou Changchuan Technology Co., Ltd.

GPIB Programming Guide

GENERAL

The general-purpose interface bus (GPIB) is used to connect the tester to the handler.

The handler will send information to the tester and receive information from the tester.

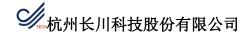


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1. Command Format

- 1.1. All output data consist of ASCII characters.
- 1.2. Formats of output data will be different due to the number of data items:

<output only one data item>

h...h_d....d CR LF <EOI>

<output multiple data items>

Multiple data items

h...h_d....d, d....d; CR LF <EOI>

- 1.3. Descriptions of Data
- 1.3.1. Block delimiter

A block delimiter is output to indicate the end of one data item.

CR LF <EOI>

1.3.2. String delimiter (separator)

A string delimiter is output to separate continuous data items and messages.

There are three types of string delimiters.

- " " (Space) : Used to separate headers and data items.

- "," (Comma) : Used to separate data items.

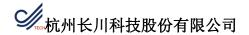
- ";" (Semi-colon) : Used to separate the end of strings.

2. SRQ (Service Request) Code

When the handler needs to perform test operations, the following SRQ data will be generated:

Test Start SRQ: SRQ 65 (0×41)

Test Start SQR indicates tests will start on sites 1~site 32.



3. Commands Sent by the Tester to the Handler

Command	Parameter		Description																
FULLSITES	?	Inquires the sites among site 1 to site 32 on which tests will be performed. "FULLSITES?"																	
		Sends test results to the handler and requests the handler to return the results received. The number of data items depends on the number of sites.																	
		"BINON:xxxxxxxx,xxxxxxxx,xxxxxxxx;"																	
	Each digit indicates a binning result of a site. The rightmost digit is the test re of site 1 and the leftmost digit is the test result of site 32.												st result						
BINON		Relatio	Relationship between BIN and characters:																
		0~15 BIN:																	
		BIN	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
		Param	0	1	2	3	4	5	6	7	8	9	А	В	С	D	E	F	
		"0" indicates that no tests have been performed on this site. For example, if the handler only performed tests on site 4, test result is BIN 15, and the results will be: "BINON:00000000,00000000,00000000,0000F000;"																	
		Notify t													v th	e ha	ndle	r is c	orrect
ECHOOK		When t	he ł												•				
Lenook		"ECHO																	
ECHONG		correct	. Wl for	nen m a	the	e firs opei	st tin	ne th ns a	ne ha	andl vait	er re for	eceiv	es t teste	his c er to	omi ser	man nd a	d, th BIN	ne ha	ler is not andler wil command sent.

4. Commands Sent from the Handler to the Tester

Command P	Parameter	Description
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FULLSITES	0-F	the tes "FULLS Notify four sit of a sit to be s perform Examp "FULLS Please 1110 A 32	tter. ITES the tes we. LS ent comed. Ites for the tes we. LS ent comed. 28	ester of the pender of 32-D E7E7E that the that the that the that the pender of the pe	of test si represent esents si ds on the	tes thated kapped to the number of the numbe	nat woy for and who have been been been been been been been be	rill bour di when of si	e need gits. Ean MSB tes on en the	com O1 ^ sites	mar 11 9	block repres ats site arallel	that is sents to sents the 4, the tests	s conthe cont	mpo on/or agth ope	sed of ff state of data
The command is sent by the handler to reply the "BINON" command sent by the tester. Content of ECHO command and content of BINON test results sent by the tester are the same. ECHO Example: the tester sends "BINON:00000000,000000000,000001141;". After the test is completed, the handler will send "ECHO:00000000,00000000,000001141".									ester							



5. Commands Sent by the Tester to the Handler (BarCode)

- (A) Accept the condition where there is no BarCode process and only with test process
- (B) In the BarCode process, accept the condition where there is no "ECHOCODE" process

Command	Parameter	Description
BARCODE	۶ ا	Inquires the barcode information of site 32~site 1. "BARCODE?"
ECHOCODE		This command is sent by the tester to the handler to confirm that the barcode information received by the tester is correct. (Optional) "ECHOCODE:0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,

6. Commands Sent by the Handler to the Tester (BarCode)

Command	Parameter	Description
		The handler sends barcode information of site 32~site 1 to the tester.
BARCODE		"BARCODE:0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,
ECHOCODEO K		This command is sent by the handler to reply the ECHOCODE sent by the tester to confirm that the information is correct. "ECHOCODEOK"

7. Flow Chart

