

THE INSTRUCTION SET FOR PROGRAMMABLE INSTRUMENTS

1. Programmable stage controller Instrument with dual Axis – X & Y

Task	Command	Termination Character	Instrument Response	Termination Character	Return Bytes
Identification	"*IDN?"	CR (0Dh)	"PROGRAMMABLE DUAL-AXIS STAGE CONTROLLER"	CR (0Dh)	40
Version Number	":VER?"	CR (0Dh)	VERSION 1.1	CR (0Dh)	13
Query Maximum X -= Axis Range	":MAXX?"	CR (0Dh)	HORZ LIMIT 125mm	CR (0Dh)	17
Query Maximum Y -= Axis Range	":MAXY?"	CR (0Dh)	VERT LIMIT 125mm	CR (0Dh)	17
Set X-Axis Range	":SETX=XXX"	CR (0Dh)	RANGE SET SUCCESSFUL	CR (0Dh)	21
Set Y-Axis Range	":SETY=YYY"	CR (0Dh)	RANGE SET SUCCESSFUL	CR (0Dh)	21
Query X-Axis Range	:X?	CR (0Dh)	XXX	CR (0Dh)	4
Query Y-Axis Range	:Y?	CR (0Dh)	YYY	CR (0Dh)	4
Invalid Range		CR (0Dh)	RANGE SET ERROR	CR (0Dh)	16
Invalid Command		CR (0Dh)	"CMDERR"	CR (0Dh)	8

2. Programmable Digital Voltmeter

Task	Command	Termination Character	Instrument Response	Termination Character	Return Bytes
Identification	“*IDN?”	CR (0Dh)	"PROGRAMMABLE DIGITAL VOLTMETER"	CR (0Dh)	31
Version Number	":VER?"	CR (0Dh)	VERSION 1.1	CR (0Dh)	13
Query Maximum Voltage Range	":MAXV?"	CR (0Dh)	MAXIMUM LIMIT : +5V	CR (0Dh)	20
Query Minimum Voltage Range	":MINV?"	CR (0Dh)	MINIMUM LIMIT : +0V	CR (0Dh)	20
Query Step Size	":STEP?"	CR (0Dh)	STEP SIZE : +19Mv	CR (0Dh)	21
Query present Voltage	":V?"	CR (0Dh)	x.xxxx	CR (0Dh)	7
Invalid Command		CR (0Dh)	"CMDERR"	CR (0Dh)	8

3. Programmable Function Generator

Task	Command	Termination Character	Instrument Response	Termination Character	Return Bytes
Identification	“*IDN?”	CR (0Dh)	“PROGRAMMABLE FUNCTION GENERATOR”	CR (0Dh)	32
Query Mode	“:MODE?”	CR (0Dh)	“SINE ” / “TRI ” / “SQR ” / “SAW ”	CR (0Dh)	7
Set Sine Mode	“:MODE:SINE”	CR (0Dh)	“MODE SET”	CR (0Dh)	9
Set Triangle Mode	“:MODE:TRI”	CR (0Dh)	“MODE SET”	CR (0Dh)	9
Set Square Mode	“:MODE:SQR”	CR (0Dh)	“MODE SET”	CR (0Dh)	9
Set Saw tooth Mode	“:MODE:STH”	CR (0Dh)	“MODE SET”	CR (0Dh)	9
Query Magnitude	“:MAG?”	CR (0Dh)	“x.xx V”	CR (0Dh)	7
Query Frequency	“:FREQ?”	CR (0Dh)	“xx Hz”	CR (0Dh)	6
Set Magnitude	“:SET:MAG x.xx”	CR (0Dh)	“MAG SET”	CR (0Dh)	9
Set Frequency	“:SET:FREQ xx”	CR (0Dh)	“FREQ SET”	CR (0Dh)	9
Illegal Command			“CMD ERR”	CR (0Dh)	7