

Insulation Tester ST5520/ST5520-01 Programming Command Compatibility with 3154

See "8.6 Command Reference" in ST5520/ST5520-01 instruction manual for details

Classification	Function	3154	ST5520, ST5520-01	Compatibility C: Compatible P: Partly compatible - : Newly added X: Not compatible	Note
Specialized command	Clears event register	*CLS	*CLS	C	
	Queries event status register	*ESR?	*ESR?	C	
	Queries equipment ID	*IDN?	*IDN?	P	Response varies. 3154: HIOKI.3154.0.V1.00 ST5520: HIOKI,ST5520,00000000,V1.00 ST5520-01: HIOKI,ST5520-01,00000000,V1.00 Product serial number is given in the string of "000000000"
	Resets equipment	*RST	*RST	C	See "5.10 Default Setting List" for the initialized items.
Testing status	Starts a test	:START	:START	C	
	Ends a test	:STOP	:STOP	C	
	Queries testing status	:STATE?	:STATE?	C	
Measurement result	Queries measured value	:MEASure?	:MEASure?	P	ST5520/ST5520-01 does not add headers in responses; measured values and judgments results are given in the following strings. Response string format can be changed by using 3154 compatible mode (:SYSTEM:COMPpatible ON).
	Queries judgment result	:MEASure:COMParator?	:MEASure:COMParator?	P	
	Queries measured value and judgment result	:MEASure:REsult?	:MEASure:REsult?	P	
	Clears measured value and judgment result	-	:MEASure:CLear	-	
Voltage setting	Sets test voltage	:VOLTage	:VOLTage	C	ST5520/ST5520-01 accepts voltage setting in 1V step.
	Queries test voltage	:VOLTage?	:VOLTage?	C	
Resistance range	Sets resistance range	:MOHM:RANGe	:MOHM:RANGe	C	
	Queries resistance range	:MOHM:RANGe?	:MOHM:RANGe?	C	
Measurement speed	Sets measurement speed	:SPEed	:SPEed	C	Sampling time varies depending on the setting. 3154: (FAST) 100ms, (SLOW) 1000ms ST5520/ST5520-01: (FAST) 30ms, (SLOW) 500ms
	Queries measurement speed	:SPEed?	:SPEed?	C	
Timer	Sets test duration	:TIMer	:TIMer	C	Setting range varies. 3154: 0.5 to 9.9 ST5520/ST5520-01: 0.005 to 999.999
	Queries test duration	:TIMer?	:TIMer?	C	Note that the test time of ST5520/ST5520-01 includes response time (Test time = Response time + Measurement time)
	Sets response time	:DELay	:DELay	C	Setting range varies. 3154: 0.0 to 9.9 and 10 to 99 ST5520/ST5520-01: 0.005 to 999.999
	Queries response time	:DELay?	:DELay?	C	Note that the test time of ST5520/ST5520-01 includes response time (Test time = Response time + Measurement time)
Comparator	Sets comparator lower limit value	:COMParator	:COMParator (Not appear in the manual)	C	ST5520/ST5520-01 ignores test voltage setting since it can set lower limit regardless of the test voltage. ":COMParator:LIMit" command is preferable to set lower limit.
	Queries comparator lower limit value	:COMParator?	:COMParator? (Not appear in the manual)	C	ST5520/ST5520-01 ignores test voltage setting since it can set lower limit regardless of the test voltage. As "PASS STOP" and "SEQUENCE" modes are newly added to ST5520/ST5520-01, response differs when either of the modes is set. ":COMParator:LIMit?" command is preferable to query lower limit.
	Sets comparator upper/lower limit value	-	:COMParator:LIMit	-	Only to set lower limit, set the command as ":COMParator:LIMit OFF, <lower limit>".
	Queries comparator upper/lower limit value	-	:COMParator:LIMit?	-	
	Sets comparator test mode	-	:COMParator:MODE	-	
	Queries comparator test mode	-	:COMParator:MODE?	-	
Contact check	Sets judgment beep sound	:COMParator:BEEPer	:COMParator:BEEPer	C	
	Queries judgment beep sound	:COMParator:BEEPer?	:COMParator:BEEPer?	C	
	Sets contact check function	-	:CONtactcheck	-	
	Queries contact check function	-	:CONtactcheck?	-	
Short circuit check	Queries the contact check result	-	:CONtactcheck:REsult?	-	
	Sets short circuit check function	-	:SHORtcheck	-	
	Queries short circuit check function	-	:SHORtcheck?	-	
	Sets the short circuit check time	-	:SHORtcheck:REsult?	-	
	Queries the short circuit check time	-	:SHORtcheck:TIME	-	
	Queries the short circuit check execution time	-	:SHORtcheck:TIME?	-	
Key beep sound	Sets key beep sound	:KEY:BEEPer	:KEY:BEEPer	C	
	Queries key beep sound	:KEY:BEEPer?	:KEY:BEEPer?	C	
Double action	Sets double action	-	:DOUBleaction	-	
	Queries double action	-	:DOUBleaction?	-	
LCD	Sets LCD contrast	-	:DISPlay:CONtRast	-	
	Queries LCD contrast	-	:DISPlay:CONtRast?	-	
	Sets LCD backlight	-	:DISPlay:BACKlight	-	
Power frequency	Queries LCD backlight	-	:DISPlay:BACKlight?	-	
	Sets power frequency	-	:SYSTem:LFRequency	-	
Save/Load	Queries power frequency	-	:SYSTem:LFRequency?	-	
	Saves test conditions	:SAVE	:SAVE (Not appear in the manual)	C	":PANel:SAVE" command is preferable for ST5520/ST5520-01.
	Saves test conditions	-	:PANel:SAVE	-	
	Queries if conditions saved with designated number are to be saved	:SAVE?	:SAVE? (Not appear in the manual)	C	":PANel:SAVE?" command is preferable for ST5520/ST5520-01.
	Queries if conditions saved with designated number are to be saved	-	:PANel:SAVE?	-	
	Loads test conditions	:LOAD	:LOAD (Not appear in the manual)	C	":PANel:LOAD" command is preferable for ST5520/ST5520-01.
Analog output	Loads test conditions	-	:PANel:LOAD	-	
	Sets panel name	-	:PANel:NAME	-	
Switched probe operation	Queries panel name	-	:PANel:NAME?	-	
	Sets panel name	-	:PANel:NAME?	-	
TEST signal OFF timing	Deletes panel	-	:PANel:CLear	-	
	Sets analog output	:AOUT:RANGe	:AOUT:RANGe	C	
Interlock	Queries analog output	:AOUT:RANGe?	:AOUT:RANGe?	C	
	Sets switched probe operation mode	:PROBe	:PROBe	C	
Key lock	Queries switched probe operation mode	:PROBe?	:PROBe?	C	
	Sets TEST signal timing	:IO:SIGNal	:IO:SIGNal	C	
Command header ON/OFF function	Queries TEST signal timing	:IO:SIGNal?	:IO:SIGNal?	C	
	Sets interlock status	-	:IO:ILOCK	-	
Communications	Queries interlock status	-	:IO:ILOCK?	-	
	Sets key lock status	-	:SYSTem:KLOCK	-	
VOLT signals operation	Queries key lock status	-	:SYSTem:KLOCK?	-	
	Sets response command header ON/OFF	:HEADer	:HEADer	C	
VOLT signals operation	Queries response command header ON/OFF	:HEADer?	:HEADer?	C	
	Resets remote state	-	:SYSTem:LOCal	-	
VOLT signals operation	Sets VOLT signals operation mode	:VOLTage:SIGNal	-	X	ST5520/ST5520-01 does not have VOLT signal terminals at the external I/O; the setting is fixed to LOAD number selection.
	Queries VOLT signals operation mode	:VOLTage:SIGNal?	-	X	