

# A List of Messages

SCPI command: Full command name in long form (lowercase characters can be omitted)

Affected commands: Commands that are set to their default values as a result of the \*RST, \*RCL, MEAS:VOLT?, and CONF commands are indicated as Yes.

R and W denote query command (R) and set command (W), respectively.

\*: Values 1, 2, and 3 indicate SCPI standard command, command in review, and KIKUSUI original command, respectively.

Table 1 CHANnel subsystem

SCPI Command	Setting	Response	Affected Command			R/W	*
			*RST	MEAS?	CONF		
CHANnel							
:VOLTage[:DC]							
:TERMinals	<NR1>,<NR1>,<NR1>,<boolean>	<NR1>,<NR1>,<NR1>,<boolean>	Yes			R/W	3
:NSElect	<NR1>	<NR1>				R/W	3
:ROUTe							
:TERMinals	<NR1>,<NR1>,<NR1>,<boolean>	<NR1>,<NR1>,<NR1>,<boolean>	Yes			R/W	3
:NSElect	<NR1>	<NR1>				R/W	3

Table 2 INPut subsystem

SCPI Command	Setting	Response	Affected Command			R/W	*
			*RST	MEAS?	CONF		
INPut							
:PROTection							
:CLEar						W	1

Table 3 [SENSe] and CONFIgure subsystem

SCPI Command	Setting	Response	Affected Command			R/W	*
			*RST	MEAS?	CONF		
[SENSe:]							
VOLTage[:DC]							
:RANGe							
:UPPer	{<numeric>IMINIMAXIDEF}	<numeric>	Yes	Yes	Yes	R/W	1
:AUTO	<boolean>	<boolean>	Yes	Yes	Yes	R/W	1
:PROTection							
:UPPer	{<numeric>IMINIMAXIDEF}	<numeric>	Yes			R/W	3
:LOWer	{<numeric>IMINIMAXIDEF}	<numeric>	Yes			R/W	3
CONFIgure:							
[:SCALar]							
:VOLTage [:DC]	<numeric>	"<configuration_info>"				W	1
:ALL	<numeric>					W	3

Table 4 MEASure &amp; TRIGger subsystem

SCPI Command	Setting	Response	Affected Command			R/W	*
			*RST	MEAS?	CONF		
FETCh							
[[:SCALar]		<volt>				R	1
[[:VOLTage[:DC]]		<volt>				R	1
:ARRay		<volt>,<volt>,<volt>...				R	1
[[:VOLTage[:DC]]		<volt>,<volt>,<volt>...				R	1
READ							
[[:SCALar]		<volt>				R	1
[[:VOLTage[:DC]]		<volt>				R	1
:ARRay		<volt>,<volt>,<volt>...				R	1
[[:VOLTage[:DC]]		<volt>,<volt>,<volt>...				R	1
MEASure							
[[:SCALar]		<volt>				R	1
:VOLTage[:DC]		<volt>				R	1
:ARRay		<volt>,<volt>,<volt>...				R	1
:VOLTage[:DC]		<volt>,<volt>,<volt>...				R	1
ABORt						W	1
INITiate[:IMMediate]						W	1

Table 5 SYSTem subsystem

SCPI Command	Setting	Response	Affected Command			R/W	*
			*RST	MEAS?	CONF		
SYSTem							
:VERSion		<scpi_version>				R	1
:ERRor[:NEXT]		<code>,"<description>"				R	1
:FORMation:INSTruments:COUNT		number of scanning units				R	3

Table 6 STATus subsystem

SCPI Command	Setting	Response	R/W	*
STATus				
:OPERation				
[[:EVENT]		<event>	R	1
:CONDition		<condition>	R	1
:ENABle	<numeric>	<numeric>	R/W	1
:PTRansition	<numeric>	<numeric>	R/W	1
:NTRansition	<numeric>	<numeric>	R/W	1
:QUESTionable				
[[:EVENT]		<event>	R	1
:CONDition		<condition>	R	1
:LIST				
:OVP		"<channel list>"	R	3
:UVP		"<channel list>"	R	3
:ENABle	<numeric>	<numeric>	R/W	1
:PTRansition	<numeric>	<numeric>	R/W	1
:NTRansition	<numeric>	<numeric>	R/W	1

Table 7 IEEE488.2 common commands

IEEE488.2 common commands	Setting	R/W
*CLS	Clears the status data structures.	W
*ESE	Sets the standard event status enable register bits.	R/W
*ESR?	Queries the standard event status register.	R
*IDN?	Queries the identification string. (Manufacturer information)	R
*OPC	Causes the device to generate the operation complete message in the standard event status register when all pending selected device operations have been finished.	R/W
*RST	Performs a device reset. Configures the device to a known condition independent from the usage history of the device.	W
*SRE	Sets the service request enable register bits.	R/W
*STB?	Reads the status byte and the master summary status bit.	R
*TRG	Command error	W
*TST?	Since there is no self-test function built into the KFM2151, an ASCII character "0" is always returned in the output queue in response to this query.	R
*WAI	Prevents the device from executing subsequent commands or queries until the No Operation Pending flag becomes true. (*OPC?)	W