

## 6.2 Common commands

Common commands are described in the IEEE 488.2 (IEC 625-2) standard. These commands have the same effect and are employed in the same way on different devices. The headers of these commands consist of "\*" followed by three letters. Many common commands are related to the Status Reporting System.

Available common commands:

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### \*CLS

Clear status

Sets the status byte (STB), the standard event register (ESR) and the `EVENT` part of the `QUESTIONABLE` and the `OPERATION` registers to zero. The command does not alter the mask and transition parts of the registers. It clears the output buffer.

**Usage:**                      Setting only

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### \*ESE <Value>

Event status enable

Sets the event status enable register to the specified value. The query returns the contents of the event status enable register in decimal form.

**Parameters:**

<Value>                      Range:      0 to 255

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### \*ESR?

Event status read

Returns the contents of the event status register in decimal form and then sets the register to zero.

**Return values:**

<Contents>                      Range:        0 to 255

**Usage:**                              Query only

**\*IDN?**

Identification

Returns the instrument identification.

**Return values:**

<ID>                                "Rohde&Schwarz,<device type>,<part number>/<serial number>,<firmware version>"

**Example:**                        Rohde&Schwarz,SMB,1412.0000K02/000000,03.01.158

**Usage:**                              Query only

**Manual operation:**    See "[Hardware Options / Software Options](#)" on page 99

**\*IST?**

Individual status query

Returns the contents of the IST flag in decimal form. The IST flag is the status bit which is sent during a parallel poll.

**Return values:**

<ISTflag>                        0 | 1

**Usage:**                              Query only

**\*OPC**

Operation complete

Sets bit 0 in the event status register when all preceding commands have been executed. This bit can be used to initiate a service request. The query writes a "1" into the output buffer when all preceding commands have been executed, which is useful for command synchronization.

**\*OPT?**

Option identification query

Queries the options included in the instrument. For a list of all available options and their description, refer to the data sheet.

**Return values:**

<Options> The query returns a list of options. The options are returned at fixed positions in a comma-separated string. A zero is returned for options that are not installed.

**Usage:**

Query only

**Manual operation:** See "[Hardware Options / Software Options](#)" on page 99

**\*PRE <Value>**

Parallel poll register enable

Sets parallel poll enable register to the indicated value. The query returns the contents of the parallel poll enable register in decimal form.

**Parameters:**

<Value> Range: 0 to 255

**\*PSC <Action>**

Power on status clear

Determines whether the contents of the `ENABLE` registers are preserved or reset when the instrument is switched on. Thus a service request can be triggered when the instrument is switched on, if the status registers ESE and SRE are suitably configured. The query reads out the contents of the "power-on-status-clear" flag.

**Parameters:**

<Action> 0 | 1  
**0**  
 The contents of the status registers are preserved.  
**1**  
 Resets the status registers.

**\*RCL <Number>**

Recall

Loads the instrument settings from an intermediate memory identified by the specified number. The instrument settings can be stored to this memory using the command `*SAV` with the associated number.

It also activates the instrument settings which are stored in a file and loaded using the `MMEMory:LOAD <number>, <file_name.extension>` command.

**Manual operation:** See "[Recall Immediate x](#)" on page 131

**\*RST**

Reset

Sets the instrument to a defined default status. The default settings are indicated in the description of commands.

The command is equivalent to `SYSTem:PRESet`.

**Usage:** Setting only

**Manual operation:** See "[Preset](#)" on page 96

#### **\*SAV** <Number>

Save

Stores the current instrument settings under the specified number in an intermediate memory. The settings can be recalled using the command `*RCL` with the associated number.

To transfer the stored instrument settings in a file, use the command `:MMEMory:STORe:STATe`.

**Manual operation:** See "[Save Immediate x](#)" on page 129

#### **\*SRE** <Contents>

Service request enable

Sets the service request enable register to the indicated value. This command determines under which conditions a service request is triggered.

##### **Parameters:**

<Contents>                      Contents of the service request enable register in decimal form.  
    Bit 6 (MSS mask bit) is always 0.  
    Range:        0 to 255

#### **\*STB?**

Status byte query

Reads the contents of the status byte in decimal form.

**Usage:** Query only

#### **\*TRG**

Trigger

Triggers all actions waiting for a trigger event. In particular, `*TRG` generates a manual trigger signal. This common command complements the commands of the `TRIGger` subsystem.

**Usage:** Event

**Manual operation:** See "[Execute Single Trigger](#)" on page 234