

- **UP and DOWN:** increases or reduces the numeric value by one step. The step width can be specified via an allocated step command for each parameter which can be set via UP and DOWN.
- **INF and NINF:** INFinity and Negative INFinity (NINF) represent the numeric values 9.9E37 or -9.9E37, respectively. INF and NINF are only sent as instrument responses.
- **NAN:** Not A Number (NAN) represents the value 9.91E37. NAN is only sent as an instrument response. This value is not defined. Possible causes are the division of zero by zero, the subtraction of infinite from infinite and the representation of missing values.

Example:

Setting command: SENSE:LIST:FREQ MAXimum

Query: SENS:LIST:FREQ?

Response: 3.5E9

**Queries for special numeric values**

The numeric values associated to MAXimum/MINimum/DEFault can be queried by adding the corresponding mnemonic after the question mark.

Example: SENSE:LIST:FREQ? MAXimum

Returns the maximum numeric value as a result.

5.3.3.3 Boolean parameters

Boolean parameters represent two states. The "ON" state (logically true) is represented by "ON" or a numeric value 1. The "OFF" state (logically untrue) is represented by "OFF" or the numeric value 0. The numeric values are provided as the response for a query.

Example:

Setting command: HCOPy:DEV:COL ON

Query: HCOPy:DEV:COL?

Response: 1

5.3.3.4 Text parameters

Text parameters observe the syntactic rules for mnemonics, i.e. they can be entered using a short or long form. Like any parameter, they have to be separated from the header by a white space. In the response to a query, the short form of the text is provided.