

Instrument Security Procedures

Model: Fluke 5128A

Product Name: RHapid-Cal Humidity Generator

Instrument Description:

The 5128A is a precision-controlled humidity generator that produces a precise test environment to calibrate humidity sensors in its internal chamber.

Memory Description:

Non-volatile: 2k byte EEPROM

On-board RAM

Memory Cleaning Instructions:

The 5128A has 2 k bytes of EEPROM that is non-volatile and is used to store calibration constants and the last temperature and humidity setting. The contents of the EEPROM remain intact when the instrument is powered off. These stored values are written into Random Access Memory (RAM) upon power-up, and subsequently used in its operation.

When the instrument is powered off, these values are cleared from RAM. RAM is not a likely security risk.

These are the commands that can be written into the EEPROM using its USB interface or the front panel interface:

1. HOFFSET x.x where “x.x” can be any numeric string.
2. TOFFSET x.x
3. HSET xx.x
4. TSET xx.x

To see the values of these variables, the following commands are respectively used:

1. HOFFSET
2. TOFFSET
3. HREAD
4. TREAD

HOFFSET and TOFFSET can also be displayed on the front panel by holding down the NEXT and EXIT keys. The values of HSET and TSET are also displayed on the front panel as the “SetPoint” temperature and RH.

There is no “clear” command per se for any of the variables above. All of these variables must have a value. To minimize security risks, set the following:

1. HOFFSET 0.0 (the default value)
2. TOFFSET 0.0 (the default value)
3. HSET 50.0 (sets the internal chamber to 50% RH)
4. TSET 23.0. (sets the internal chamber to 23°C)