

Instrument Security Procedures

Model:

Fluke Hydra 2625A

Product Name:

Data Logger

Instrument Description:

The Hydra 2625A is a Data Logger that measures DC and AC RMS voltage, temperature, resistance, and frequency. It features non-volatile memory that stores more than 2000 scans, for stand-alone applications. It is easy to set up and configure from the front panel. It includes bi-directional communication via RS-232C, which enables control from a host computer.

Memory Description:

The 2625A has the following memory devices:

- Two 128K x 8 bit NVRAM chips on the A6 Memory PCA. This memory contains up to 2047 scans of measurement data acquired by the user. The acquired data is cleared by remote command or by the user from the Hydra front panel as described in the procedure below.
- An 8K x 8 bit SRAM in the Non-Volatile RAM/Real-time clock module on the A1 Main PCA. The SRAM contains the instrument configuration settings, plus minimum, maximum, and last Review readings for each channel; also, a portion is used as working memory by the microprocessor.
 1. The configuration settings are cleared when the Hydra's instrument configuration is changed or cleared by remote commands or by a user from the front panel, as described in the procedure below.
 2. Review readings data are cleared automatically when the instrument's configuration is cleared or changed as described above.
 3. The working memory portion is cleared by the power up self-test when the Hydra unit is turned on.
- A 64 x 16 bit EEPROM chip on the Main PCA. This memory contains calibration constants. Data remains in this non-volatile memory until the unit is re-adjusted at a Calibration Lab. The EEPROM contains no user alterable data.
- A 64K X 8 bit EPROM chip on the Main PCA. This memory contains the Hydra unit's firmware operating code. The EPROM is factory-programmed Read-Only Memory and cannot be cleared.

- Microcontrollers on the A2 Display PCA and A3 A/D Converter PCA have internal RAM, plus masked ROM, EPROM, or Flash ROM, depending on the revisions. None of this memory is user accessible. Internal RAM is cleared when the unit is turned off. The masked ROM, EPROM, or Flash ROM (as appropriate to the revisions) contain firmware code for the microcontrollers, and cannot be cleared.

Memory Cleaning Instructions:

Before performing these steps, ensure that the Hydra 2625A Data Logger unit is not under remote control, i.e. the REM annunciator is off on the front panel, and also that the Hydra unit is in Inactive mode, i.e. not in Scan or Monitor mode. If the display has the SCAN or MON annunciator(s) on, press the corresponding front panel button(s) to return the Hydra unit to Inactive mode.

To clear the Hydra 2625A scan memory, hold the SHIFT button on the front panel and then press PRINT. The 2625A will read "**CLEAR**" in the right display. Press the up arrow button to select "**yES**" in the main display and then press ENTER. (This is from the 2625A Users Manual page 3-25 and Table 3-18.)

To clear the Hydra 2625A configuration memory, first turn off the power switch. Then, hold in the CANCL button on the front panel while turning the power to the Hydra unit back on. The Hydra unit will self-test and then display "**OFF CH 0**". Note that this resets the instrument configuration and also clears the Review memory, i.e., the stored MIN, MAX, and LAST values. (This information is from the 2625A Users Manual pages 3-4 and 3-23.)