

I/A Series[®] Software Intelligent Transmitter Configuration/Maintenance Environment



The Intelligent Transmitter Configuration/Maintenance Environment is a secure environment for handling both configuration and maintenance tasks specifically for Hydrostatic Tank Gauges.

OVERVIEW

As a separate, secured I/A Series environment, the Intelligent Transmitter (IT) Configuration/Maintenance Environment provides the capability of configuring Hydrostatic Tank Gauges (HTGs) and maintaining those configuration files. The IT Configuration/Maintenance Environment provides the following features:

- the capability to preconfigure HTGs prior to actual Hydrostatic Tank Gauge installation
- the replication of an existing HTG configuration file for fast, efficient configuration of multiple HTG databases
- easy reconfiguration of an HTG database
- the capability to compare the I/A Series configuration with the HTGs database
- hard copy documentation of one or more HTG databases or the comparison of the I/A Series configuration file and the HTG database
- the capability to store configuration files on a diskette or load from a diskette
- the capability to load HTG pressure sensor information from diskette.

The IT Configuration/Maintenance Environment and the Integrated Control Configurator (ICC) software are both part of the Integrated Control Software Subsystem. The use of the IT Environment is dependent on Equipment Control Block information previously configured using the Integrated Control Configurator. Like the ICC, the IT Environment allows the preconfiguration of I/A Series database files at a Personal Workstation (PW) for later transfer via diskette to a host Application Processor (AP) or Application Workstation (AW). Preconfiguration can also be performed at any I/A Series workstation.

HYDROSTATIC TANK GAUGE DATABASES

During a typical HTG configuration session, the configurator can access two databases:

- the system-wide I/A Series HTG configuration files that reside on the AP/AW host
- the database located in each HTG that contains the downloaded I/A Series configuration file as well as any 880CFG Hand-Held Field Interface Unit⁽¹⁾ (FIU) changes or hardware-enabled changes

HYDROSTATIC TANK GAUGE CONFIGURATION/MAINTENANCE TASKS

The IT Configuration/ Maintenance Environment is a separate I/A Series environment accessible to personnel such as instrument technicians and engineers. It provides easy creation, configuration, and documentation of the HTG databases. Figure 1 indicates the IT Configuration/Maintenance Menu Hierarchy.

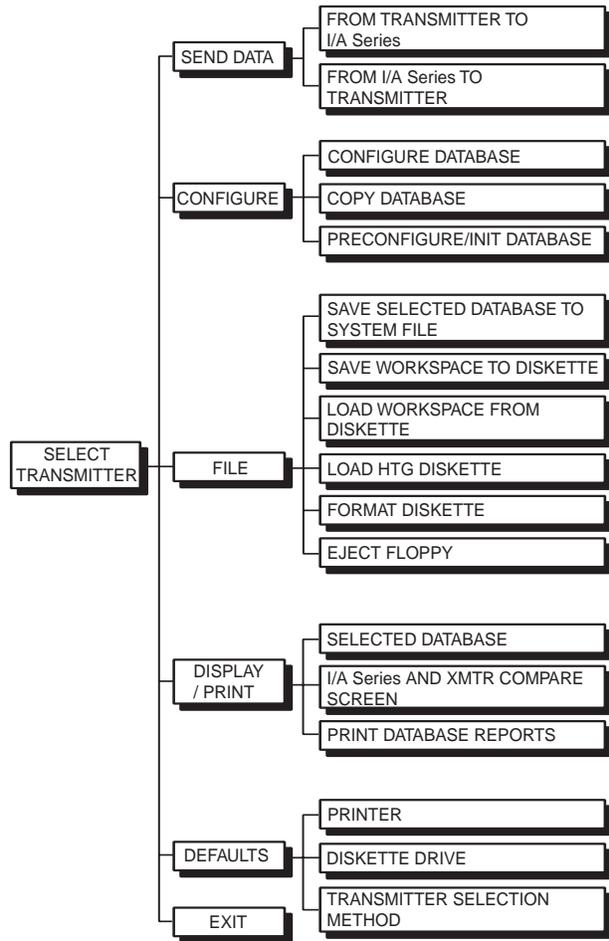


Figure 1.
IT Configuration/Maintenance Menu Hierarchy

(1) The Hydrostatic Tank Gauge uses the 880CFG Hand-Held Field Interface Unit (FIU) instead of the standard Hand-Held Terminal used with all other Intelligent Field Devices.

Configuration and maintenance of intelligent devices is easily handled in the IT Configuration/Maintenance Environment using the following selections:

- “Select Xmtr” provides access to the HTGs associated with all of the previously configured Window Equipment Control Blocks (ECBs)
- “Send Data” allows you to perform:
 - an upload of the HTG database to view the contents or make configuration changes
 - a download of the current version of the configuration file to the HTG
- “Configure” allows you to:
 - configure or reconfigure the parameters of a selected HTG. See Figure 2 for an example of a configuration display.
 - copy the selected HTG configuration file to one or more files
 - initialize the I/A Series configuration file with a default configuration
- “File” provides the options required to save or load preconfigured files to or from a diskette on a PW or host AP/AW:
 - save the selected HTG database to a system file
 - format diskette
 - save the selected HTG configuration file to a diskette
 - load an HTG configuration file from a diskette
 - load HTG pressure sensor information from a set of diskettes
 - eject floppy
- “Display/Print” allows the following report types to be displayed or printed:
 - the comparison of parameters from both the I/A Series configuration file and the HTG database. See Figure 3 for an example of the database compare screen.
 - the selected HTG database (configurable parameters)

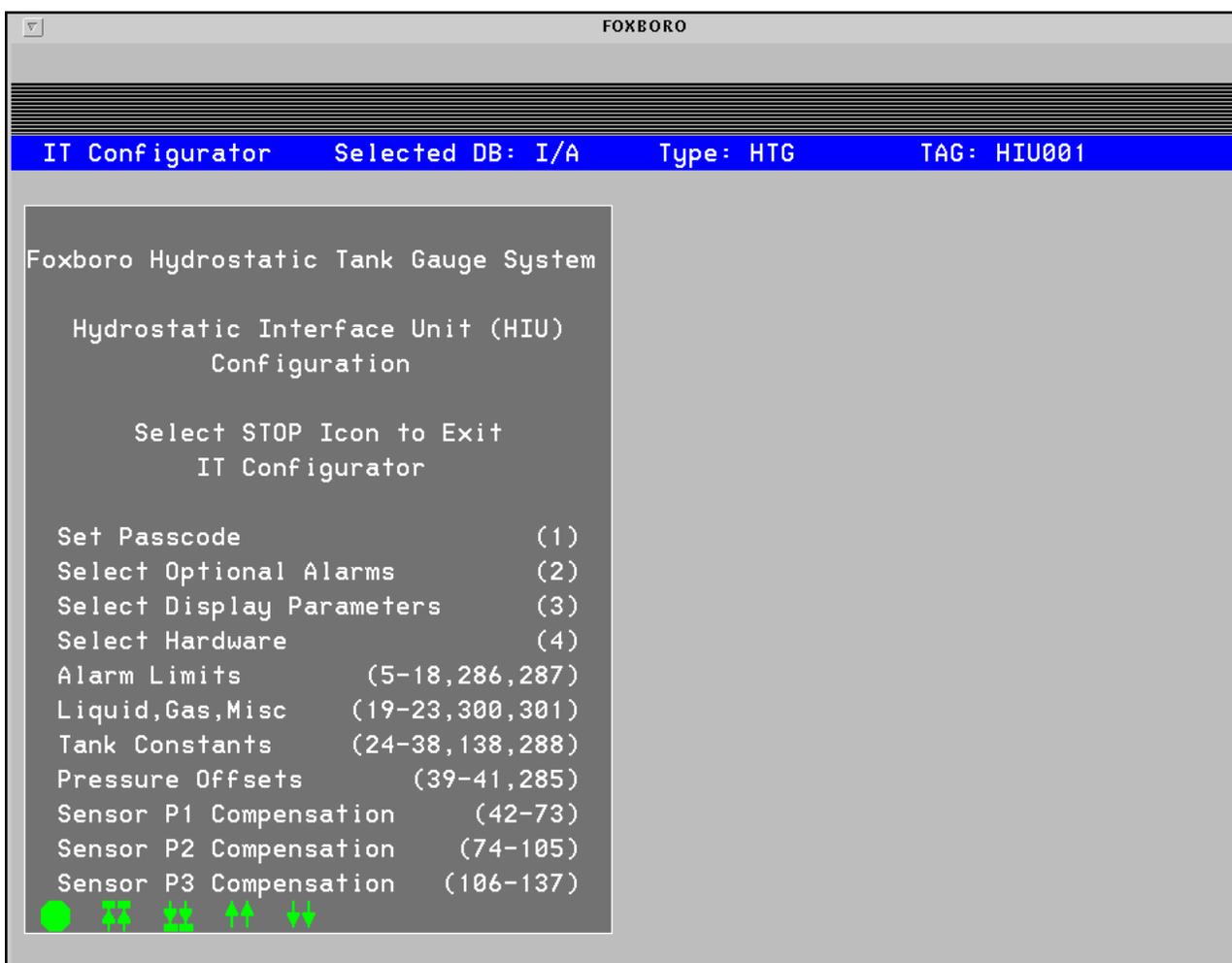


Figure 2. Example of an HTG Configuration Screen

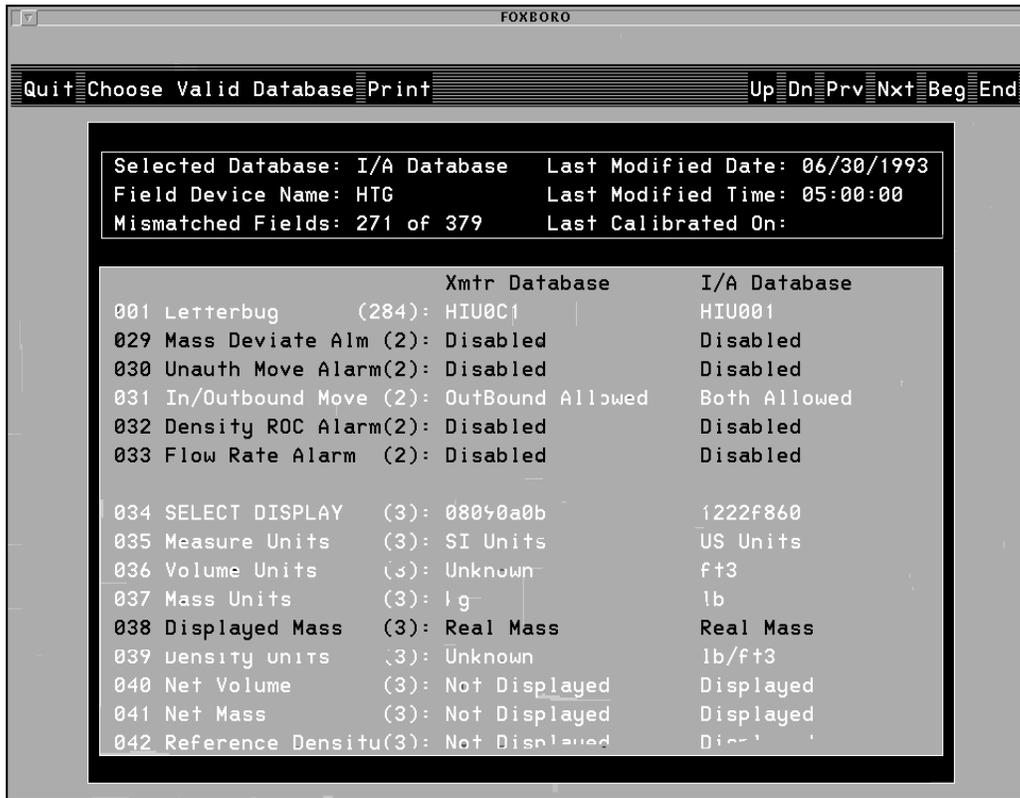


Figure 3. Example of Compare Screen

- “Defaults” allows the setting of the following defaults:
 - the printer to which report files are to be sent
 - the diskette drive for saving files to or retrieving files from diskette
 - the transmitter selection method, which allows you to select whether to show or bypass a list of active Control Processors on the network each time “Select Xmtr”, “Copy Database”, or “Print Database Reports” is selected.

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