TDAS Control Software Application Note

How a Test Setup File (TSF) loads Sensor Information Files (SIF) and how to control a users ability to modify a TSF

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When Creating a New Test (TSF)

- When you create a new Test Setup File (TSF), what information does TDAS Control (TDC) load from the Sensor Information File (SIF)?
  - The user first places (SIF's) or Groups onto the appropriate channel
  - At this time, **ALL** values from the SIF are loaded into the TSF
  - You will notice that certain fields can be modified by the user while other fields are locked out and cannot be modified
- Determine the "TSF READ SIF PROTOCOL" setting in the tdas.ini file
  - View a channel setup screen in the TSF to determine the current tdas.ini value for the "TSF READ SIF PROTOCOL"
  - The "locked out" or grayed areas of a sensor screen reveals the read protocol settings
  - Options:
    - READ ALL
    - READ MINIMUM
    - READ NONE
  - The "C:\DTS\TDAS Control\tdas.ini" file wil show the current valuel

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---- TSF Read SIF's Protocol - Options are: READ NONE, READ ALL, or READ MINIMUM –
READ MINIMUM
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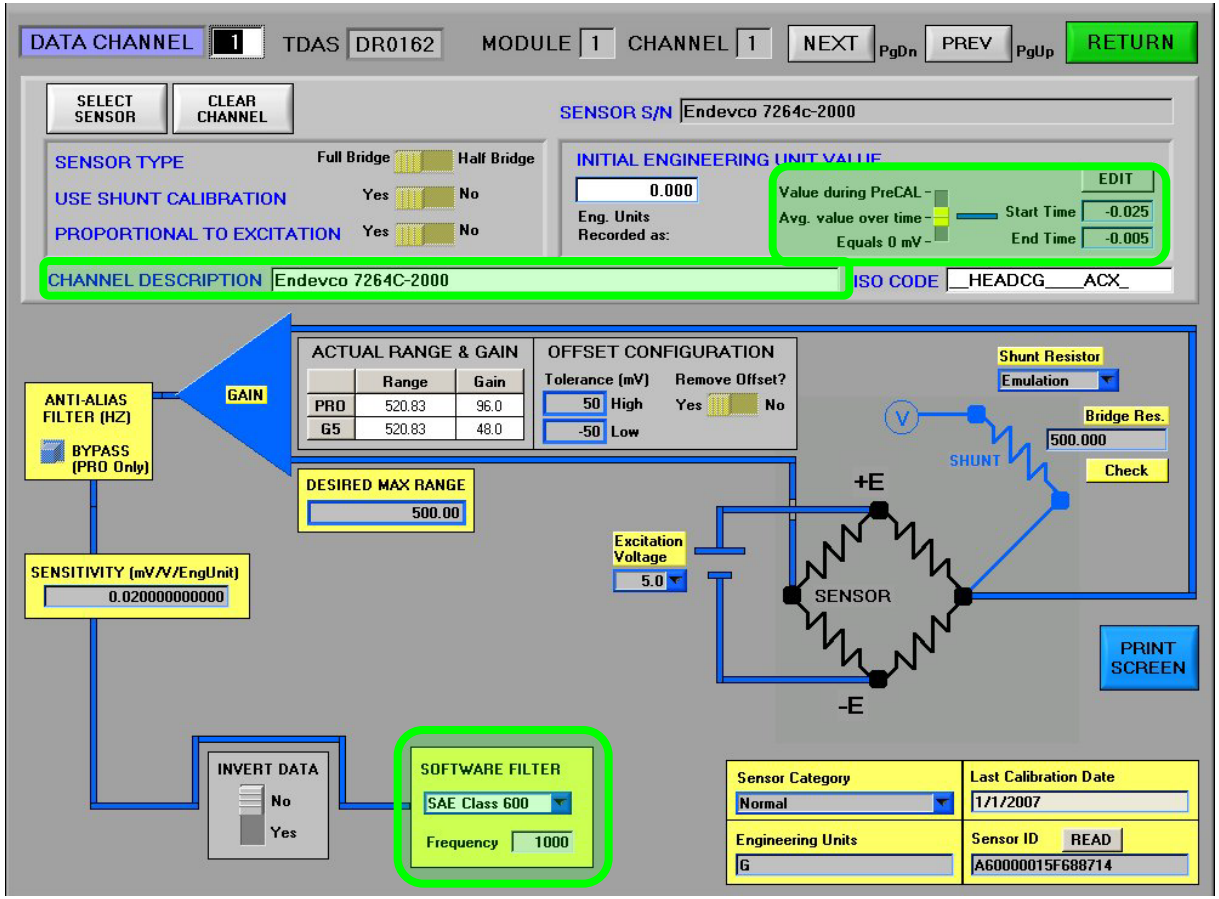
TSF SIF Unlocked Fields

Only read during the TSF creation (when a SIF is loaded). These fields will no longer be updated from the SIF. The users last input will remain

- Certain fields are never re-read from the SIF file
  - Channel Description
  - Software Filter
  - Initial Engineering Value
- Once changed in a TSF the values will remain in the TSF unless the sensor is re-installed
- Note the “Actual Range & Gain” field cannot be edited directly at any time. This field is calculated by the:
  - Desired Max Range
  - Sensitivity
  - Excitation

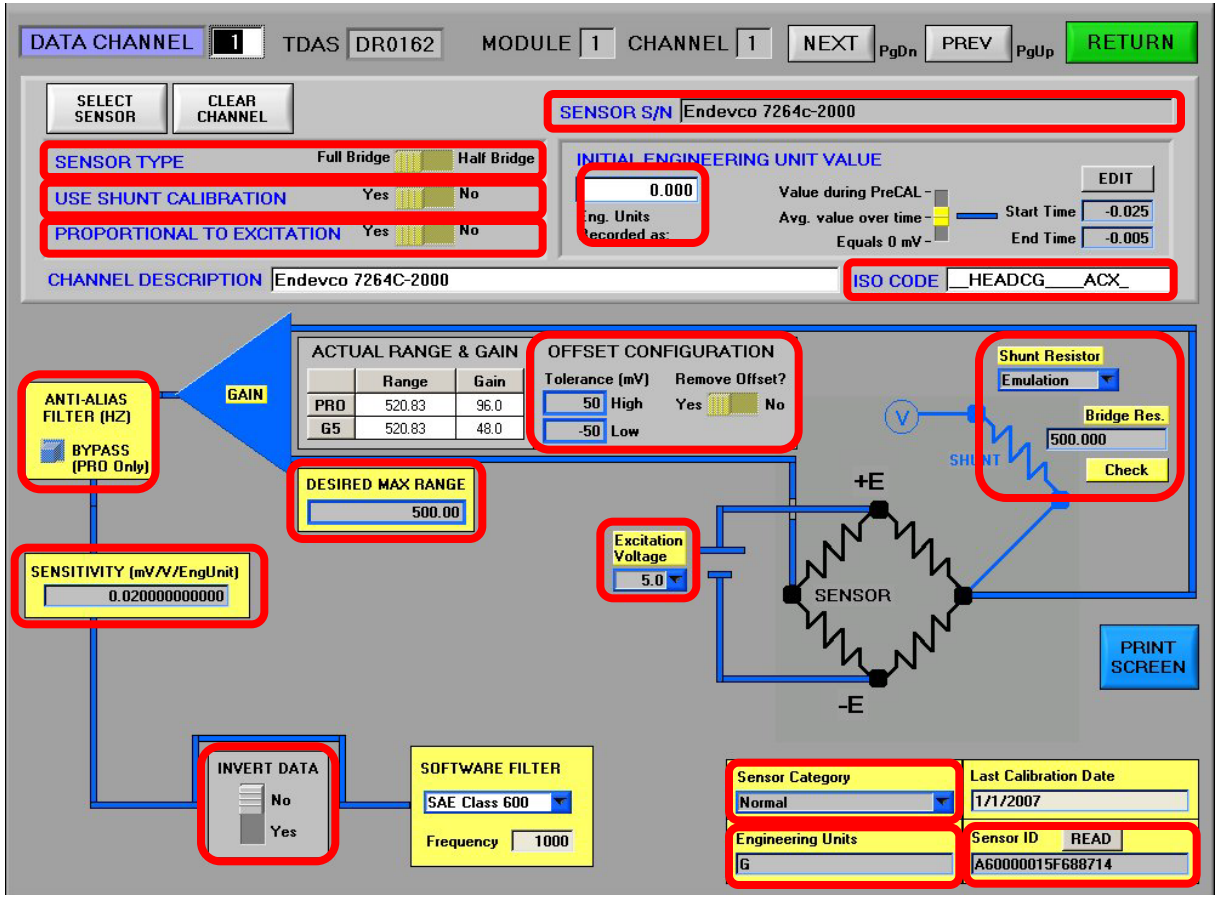


READ SIF PROTOCOL-Read All

Note the areas that are “grayed or locked out” to prevent a user from altering a SIF value

- These fields normally edited in a SIF screen are now locked in the TSF
- These “locked out” fields will always be updated by a change in SIF file
- This option prevents errors to a test setup that can affect the collected data
  - e.g: a sensor is re-calibrated with a new sensitivity
- Using or opening a TSF will re-read the SIF file for the locked values

Note: The “ISO Code” field and the “Eng. Units Recorded as” may be edited but the SIF will overwrite this setting when the TSF is used or saved and re-opened for editing

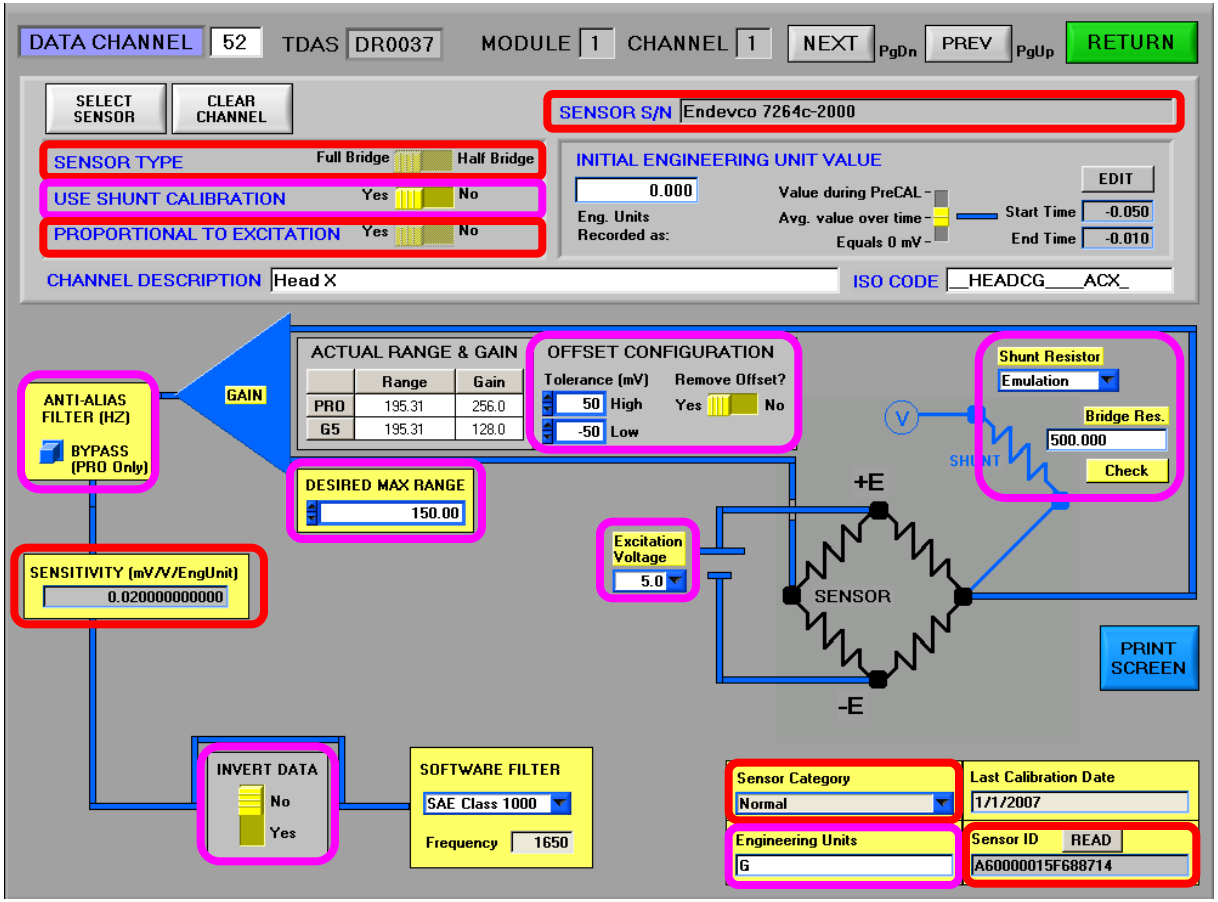


READ SIF PROTOCOL-Read Minimum

TSF fields that are “grayed” or “locked out” to prevent a user from altering a SIF value

TSF fields that may be changed by a user and are not re-read from a SIF

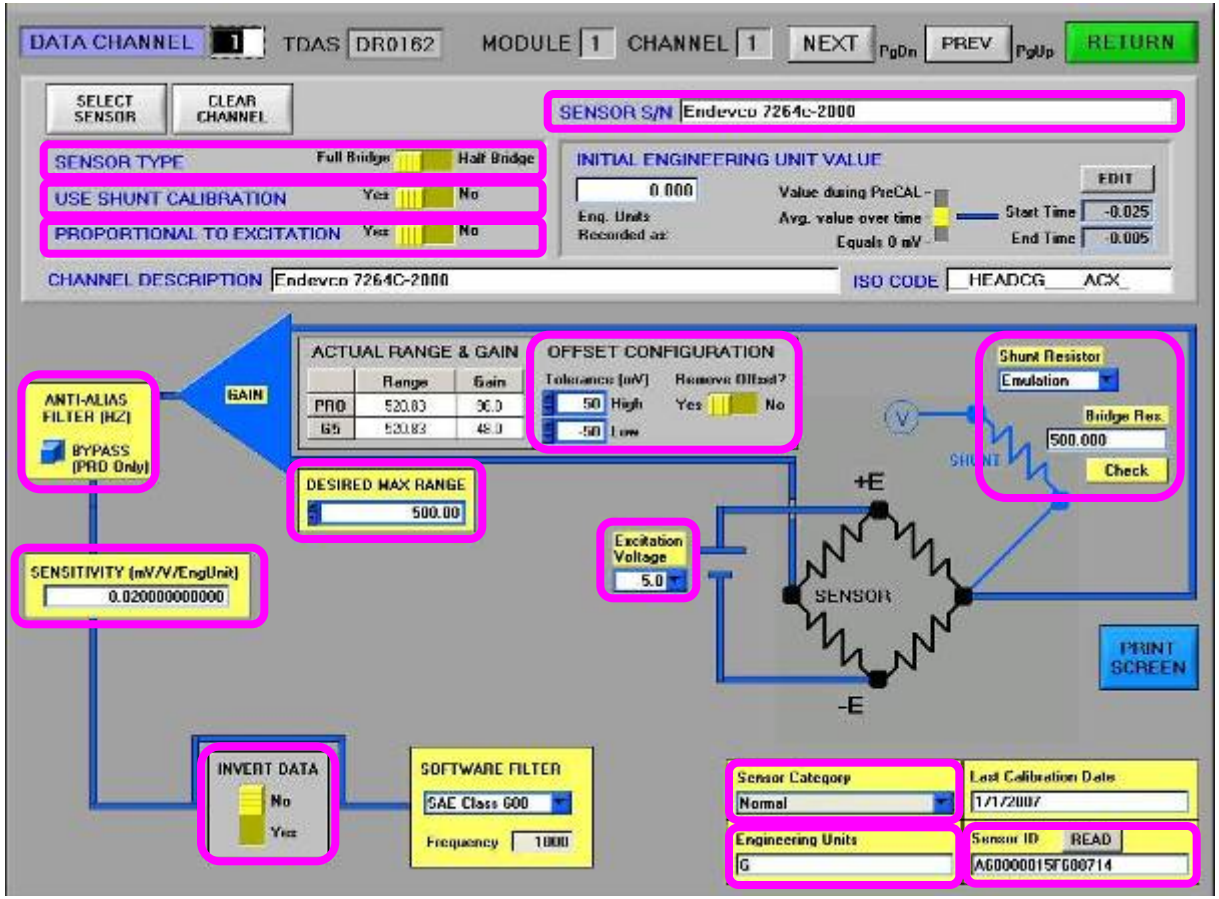
- Certain values may be changed in a TSF
- Will always use critical settings from the SIF (highlighted fields in red)
  - Sensor Type
  - Proportional to Excitation
  - Sensitivity
  - Sensor ID
- Allows for changes in a test without jeopardizing critical SIF values that can affect data



READ SIF PROTOCOL-Read None

ALL TSF fields may be changed by a user

- All fields may be edited in a TSF
- Once a SIF value is loaded into a TSF, the SIF value is never re-read
- If changes are made to a SIF, the SIF must be re-loaded manually



How to change the setting

- The values for this setting are not accessible from the TDC setup/options window
- They must be changed by edited the “tdas.ini” file
  - Open the file: “C:\DTS\TDAS_Control\tdas.ini”
  - Look for the “TSF Read SIF’s Protocol”

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---- TSF Read SIF's Protocol - Options are: READ NONE, READ ALL, or READ MINIMUM ----
READ MINIMUM
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- Replace the existing value with the desired value
  - READ ALL
  - READ MINIMUM
  - READ NONE

Ensure TDAS software is not open, changes made to the .ini will not be saved

Technical Support

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