

**IHH500 SENSOR CONNECTIONS**

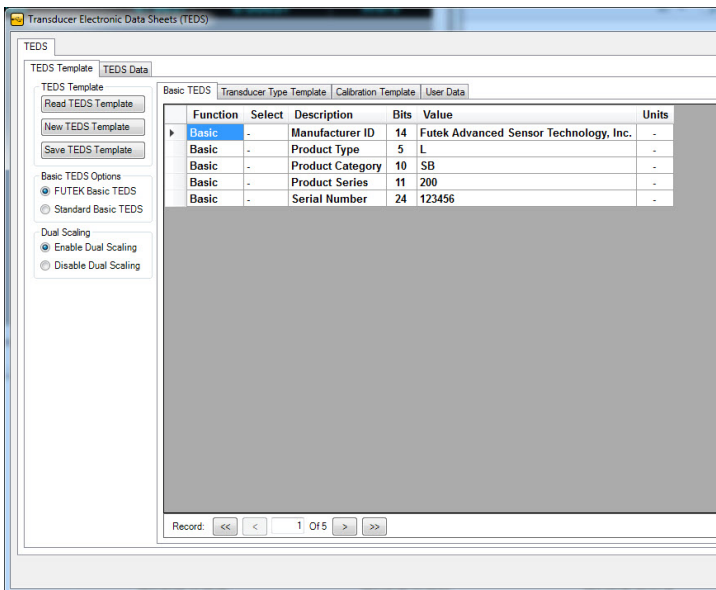
PIN	SYMBOL	DESCRIPTION
A	+E	+Excitation
B	+S	+Signal
C	-E	-Excitation, TEDS return
D	-S	-Signal
E	TEDS_IO	TEDS Data
F	24_OUT	24V output
G	GND_OUT	Ground/Shield
H	5_OUT	5V Output
J	-V	-V and -mA Amplified Input Connections
K	+V	+V and +mA Amplified Input Connections
L	PLEAD	Leading pulse from sensor
M	PLAG	Lagging pulse from sensor

**IPM650 STRAIN GAUGE INPUT**

PIN	SYMBOL	DESCRIPTION
1	G	Ground/Shield
2	TEDS	TEDS Data
3	-S	-Signal
4	+S	+Signal
5	-E	-Excitation
6	+E	+Excitation

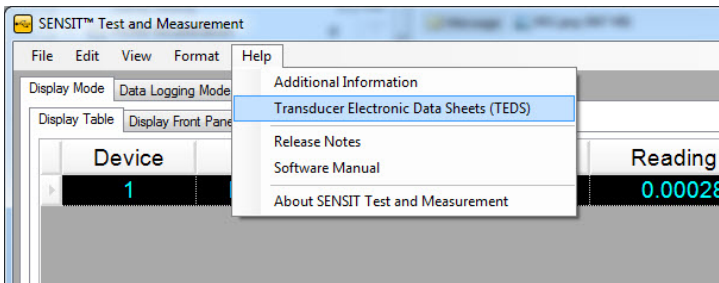
**NECESSARY COMPONENTS**

- TEDs chip
- IHH500/IPM650
- SENSIT™ Test and Measurement Software
- IHH500 USB Cable (FSH03570) or IPM650 USB Cable (GOD04123)



**TEDS TEMPLATE**

This tab in SENSIT allows the user to read and write to a TEDS Chip. The table displays information related to the Basic TEDS Information and the TEDS Template Information.

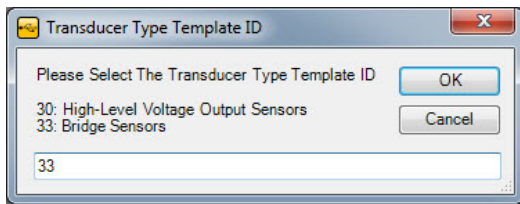


## HOW TO ACCESS TEDS TEMPLATE

Open SENSIT, verify serial number displayed in initial loading window, click Help tab, and then Transducer Electronic Datasheets (TEDS). This will open a new window allowing access to the TEDS template to read or write to the TEDS chip.

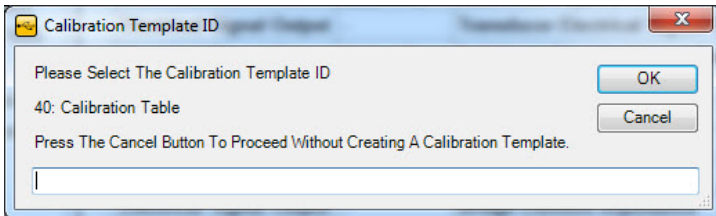
## HOW TO READ TEDS TEMPLATE INFORMATION

Click [Read TEDS Template](#).

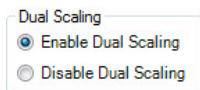


## HOW TO CREATE NEW TEDS TEMPLATE INFORMATION

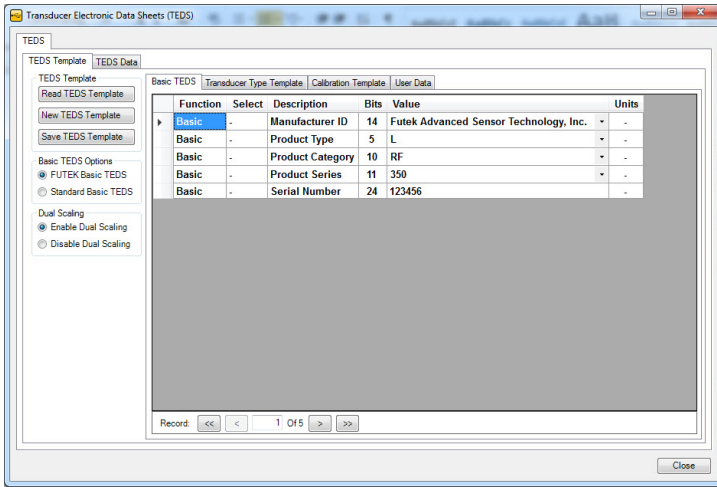
1. Click New TEDS Template and specify the Template ID number in the input box below. (Type 33 for Bridge Sensors and 30 for High Voltage Amplified output sensors. Both follow the same procedure with different inputs.)



2. Specify the Calibration Template ID. In the new window press OK with no input. **Note:** In the following steps a LRF350 500lbs 2 mV/V output will be used as an example for template 33 and a PMP300 50 PSI 0-10 VDC Output for template 30.



3. For sensors with dual direction output click Enable Dual Scaling or else leave as Disable Dual Scaling ONLY if dual direction output value available. Dual Direction output will be input later in User Data.



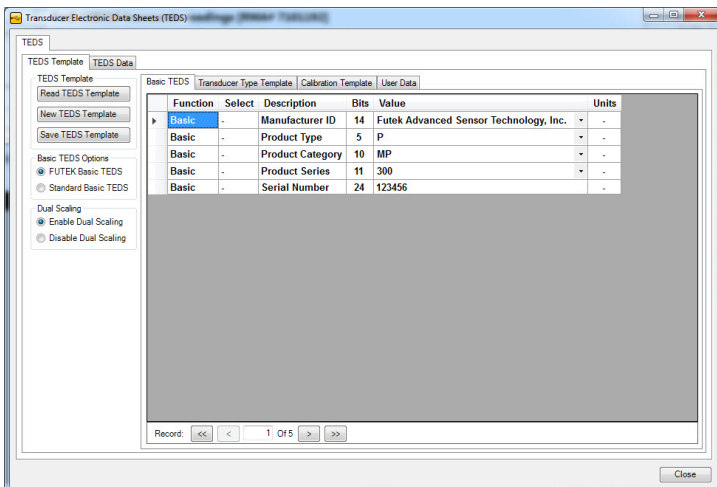
- Input Product Type, Product Category, Product Series, and Serial number for unit in **Basic TEDS** Tab. (LRF350 and PMP300 used as examples for reference.)

## PRODUCT TYPE

SYMBOL	PRODUCT
L	Load Cell
T	Torque Sensor
P	Pressure Sensor
M	Multi-Axis Sensor

**Product Category:** Letters specifying which product family sensor is part of. (Ex: RF for LRF350 and MP for PMP300)

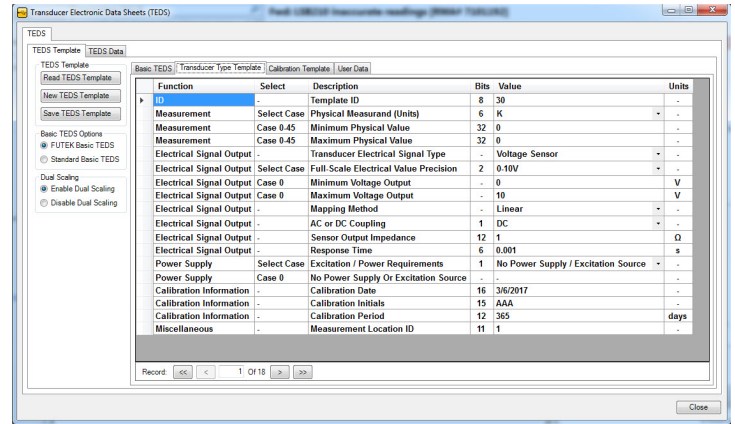
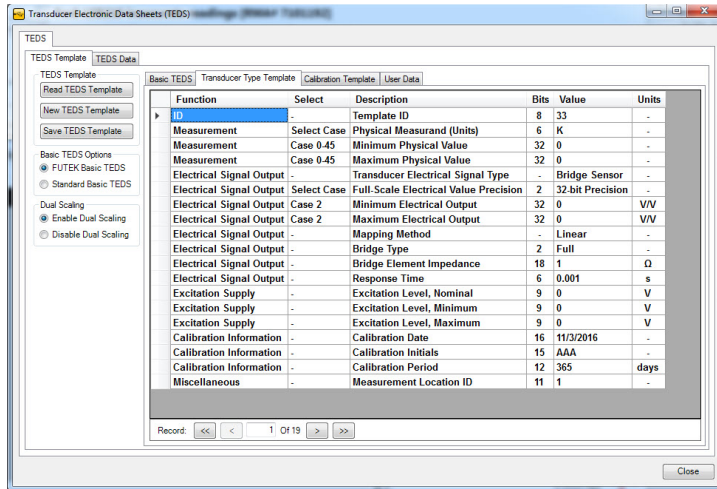
**Product Series:** Numbers used to specify sensor model. Ex: 350 for LRF350 and 300 for PMP300



# How to Program Transducer Electronic Data Sheets (TEDS)

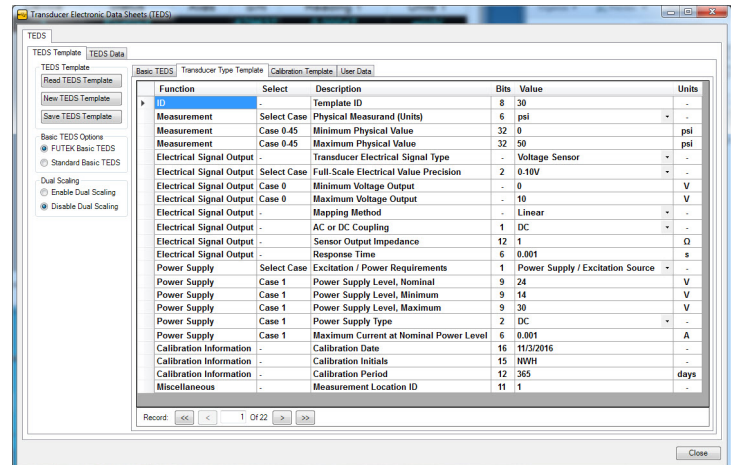
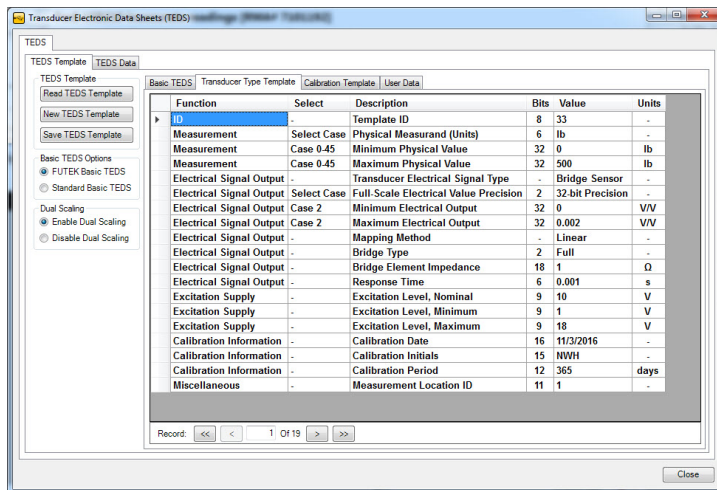
5. On **Transducer Type** Template, Input sensor information corresponding to specs.

- Template ID, Full Scale Electrical Value Precision, Mapping Method, Bridge Type, Bridge Element Impedance, Response Time, and Measurement Location ID can be left untouched with template provided values.
- Maximum Electrical Output must be converted from mV/V to V/V. (Example: 2 mV/V would be 0.002 V/V)
- Excitation Levels, voltage that will be supplied to sensor for power, can be found on Unit spec sheet. Nominal excitation level can be stated using Calibration excitation on spec sheet.



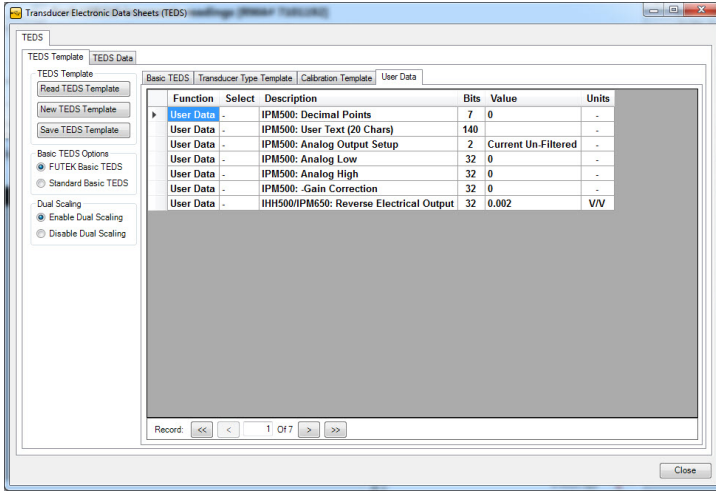
Template 33 before Sensor information input

Template 30 before Sensor information input



Template 33 after Sensor information input

Template 30 after Sensor information input



- On User Data tab, if reverse direction output is known input value in IHH500/IPM650: Reverse Electrical Output. Verify Enable Dual Scaling is enabled on Dual Scaling option.

## HOW TO SAVE TEDS TEMPLATE INFORMATION

After you have filled in all of the required Basic TEDS Information and TEDS Template Information, click Save TEDS Template.

Please Note: When writing to the TEDS Chip, the data will be overwritten. Please be cautious as there is no way to retrieve the information once it has been overwritten.

### Drawing Number: SP1210

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