

# smar - FI303DTM

## FI303DTM - Device Type Manager

**FI303 Series**  
Profibus PA to Current Converter

**smar**

**OnLine Parameterize**

- Blocks
  - Transducer
    - Calib
    - Analog Output 1
    - Analog Output 2
    - Analog Output 3
    - Display
  - Identification
- OffLine Parameterize
- Observe
- Diagnosis

Ordering Code: FI303110

Main - Board SN: 222430720

Software: 2.00

Hardware Revision: 0

Tag: FI303

Device Man: SMAR

Device ID: 006800123

Iden. Num. Selector: Manufacturer Specific

Dev. Serial #: 1

Write

Connected

JAN / 09  
FI303DTM





Specifications and information are subject to change without notice.  
Up-to-date address information is available on our website.

web: [www.smar.com/contactus.asp](http://www.smar.com/contactus.asp)

# INTRODUCTION

FI303DTM is from the family of Smar's PROFIBUS DTMs.

With FI303DTM is possible to have access to many functionalities of FI303 converter:

- ✓ Converter Identification and Manufacturing Data;
- ✓ Converter Adjustment to the Working Range;
- ✓ Device Configuration;
- ✓ Equipment Maintenance.

For further details about the topics above, refer to the FI303 manual.



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# FI303DTM

## Pre - Requirements

The user needs to be familiar with the use of frame application FDT (Field Device Tool).

## Installation

To do the FI303DTM installation and all Smar’s DTMs, run the file **setup.exe** from CD **Smar Device Library**. After ending the CD-ROM installation, get into DTMs catalog from frame application to update DTMs list.

The download of installation package of Smar’s DTMs can be done at <http://www.smar.com/support.asp>. The user has to do a login at site.

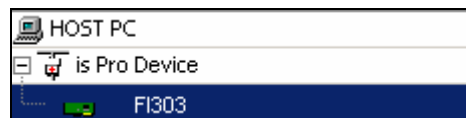
FI303DTM could be integrated in all frame applications that comply with the version 1.2 of the FDT/DTM standard.

## Topology

After FI303DTM is installed and included at DTMs frame application catalog, a DTMs topology must be mounted (representing the devices physical topology).

On top must be inserted the communication DTM (responsible for communication between the computer and first element from physical topology), the FI303DTM is the last element of topology. It represents the FI303.

In some cases, is necessary a DTM gateway type (responsible for communication protocol conversion). The FI303DTM could be used with Communication DTM and Gateway DTM from other manufacturers, if they comply with FDT 1.2 standard.



**Figure 1 – “Add Device” Screen**

Before changing FI303DTM to online, verify in the topology, if the address set in FI303DTM is the same of the FI303 device address. If it is not, change to the correct address through the DTM communication.

While the FI303DTM is offline (not connected), only the option **Offline Parameterize** will be enabled. After connected, will be possible to have online access to many functionalities of FI303:

- Online Parameterize
- Observe
- Diagnosis

## Layout


The DTMs from Smar follow a standard layout. The parameters are distributed in many screens according to its functionality. The screens can be accessed by clicking the DTM options. Every time you click an option, all screen parameters relative to the selected option will be read from the device.

Each DTM screen with parameters that can be written has a **Write** button. When any parameter is modified, the related field will change its color. After writing, the DTM realizes the reading of the changed parameters and updates the screen.

In the figure below, the FI303DTM Online Parameterization navigation tree can be seen. The other options also appear.



Figure 2 – FI303DTM Online Parameterization Screen

In the window's bottom part the user has access to navigation buttons . They allow go to home page, back to previous page or go to next page, respectively.

The communication status can be verified - connected or disconnected:



## FI303DTM Functions

Below we have a brief description about each FI303DTM function.

1. **Online Parameterize** – This function is used to do the FI303 online parameterization, is enabled when the FI303DTM is online. The user level access for this function is “Operator” (read only) and “Maintenance” (complete access).

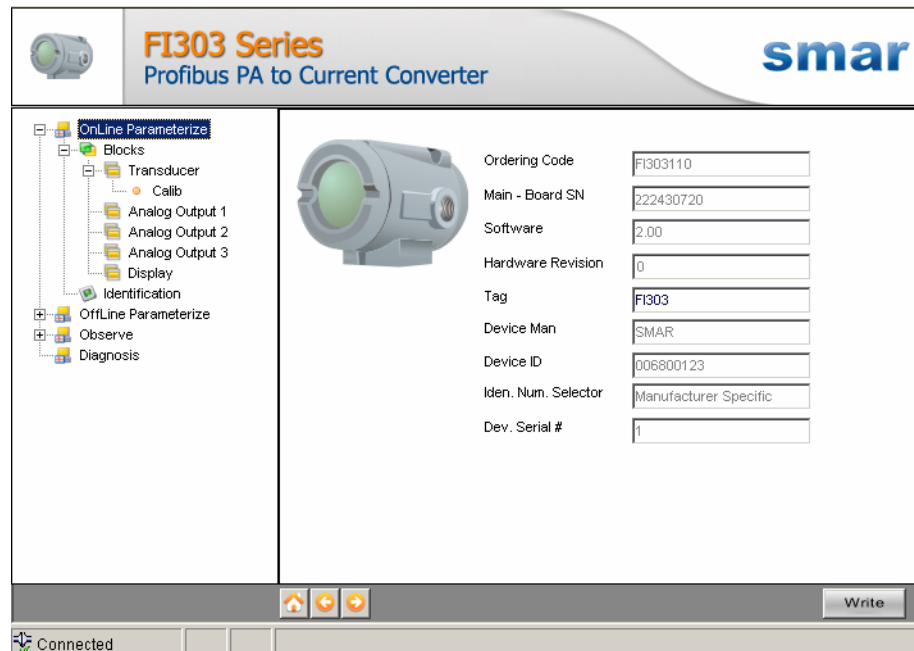


Figure 3 – FI303DTM “Online Parameterize” Screen



2. **Offline Parameterize** - This function is used to do the FI303 offline parameterization, the parameter values configured in this function can be written in FI303 through the **Download** function. The user level access for this function is “Maintenance”.

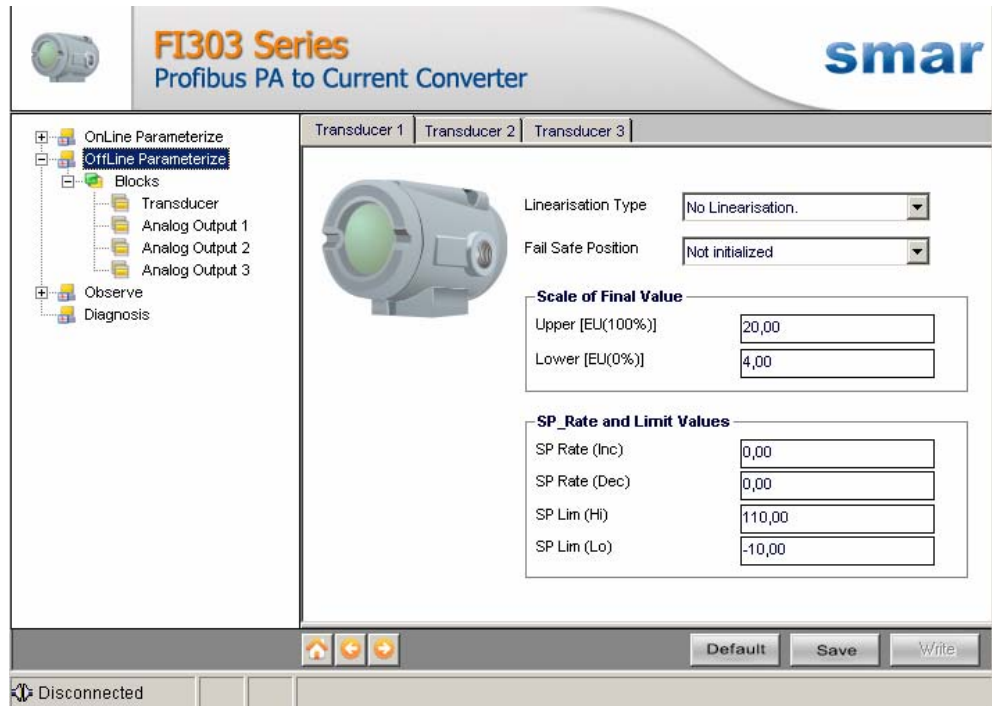


Figure 4 – FI303DTM “Offline Parameterize” Screen

3. **Observe** – Through this function is possible monitoring the main process variables. This function is enabled when the FI303DTM is online. The user level access for this function is “Operator”.

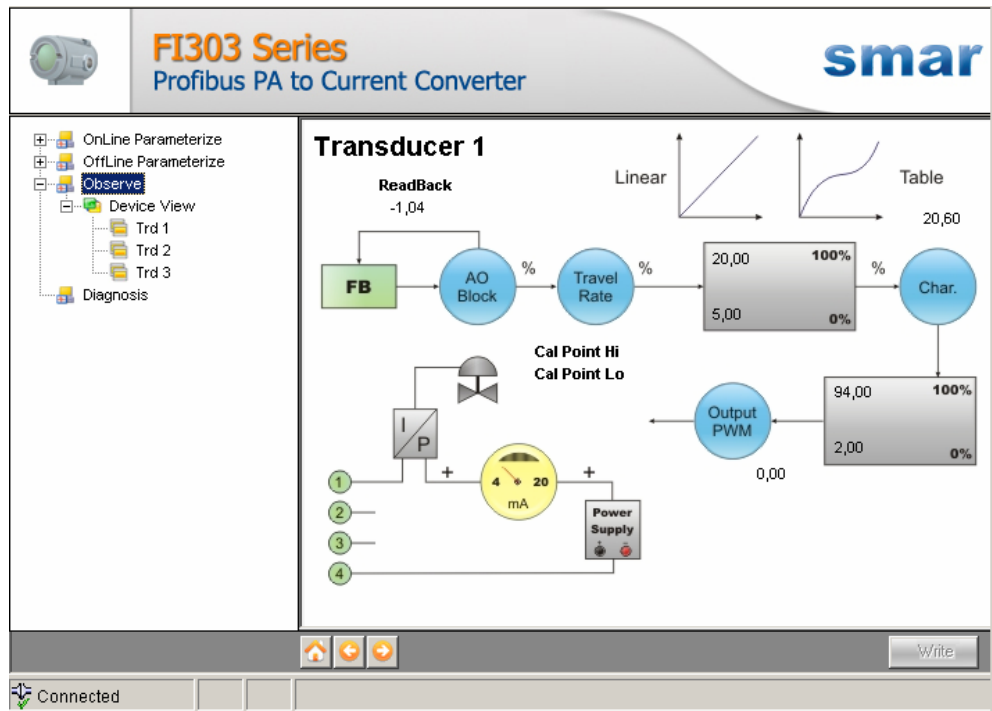


Figure 5 – FI303DTM “Observe” Screen

4. **Diagnosis** – Through this function, the user has access to the FI303 diagnostic parameters. This function is enabled when the FI303DTM is online. The user level access for this function is “Operator”.

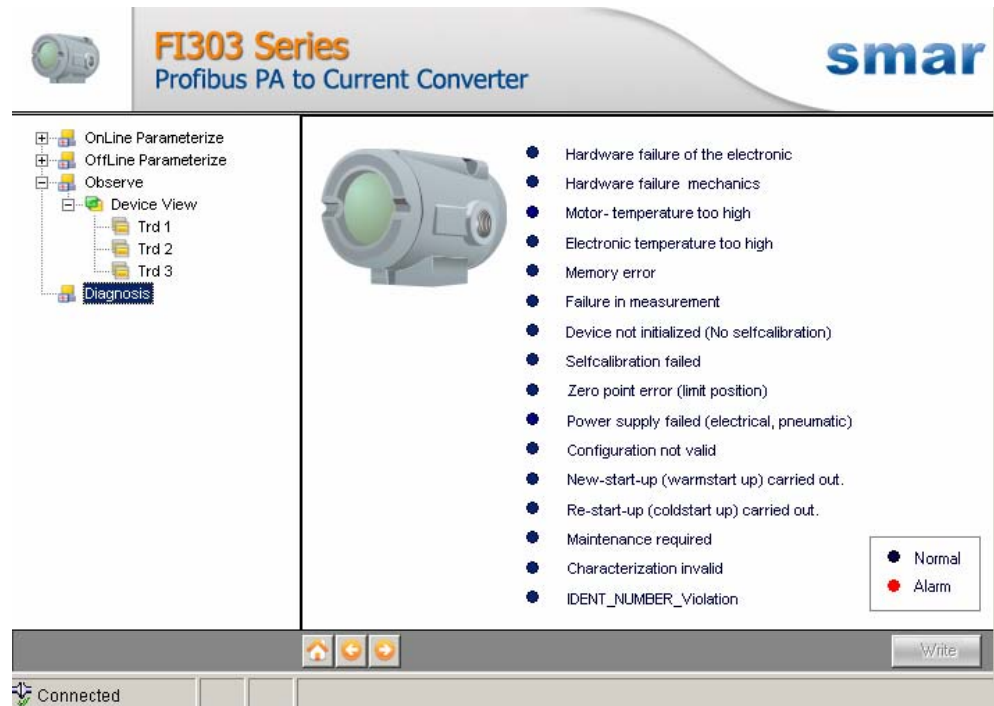


Figure 6 – FI303DTM “Diagnosis” Screen

5. **Upload** - This function reads the FI303 parameters and updates the FI303DTM database with the recent values. This function is enabled when the FI303DTM is online. The user level access for this function is “Maintenance”.
6. **Download** - This function writes the parameters configured in the FI303 **Offline Parameterize** function. This function is enabled when the FI303DTM is online. The user level access for this function is “Maintenance”.