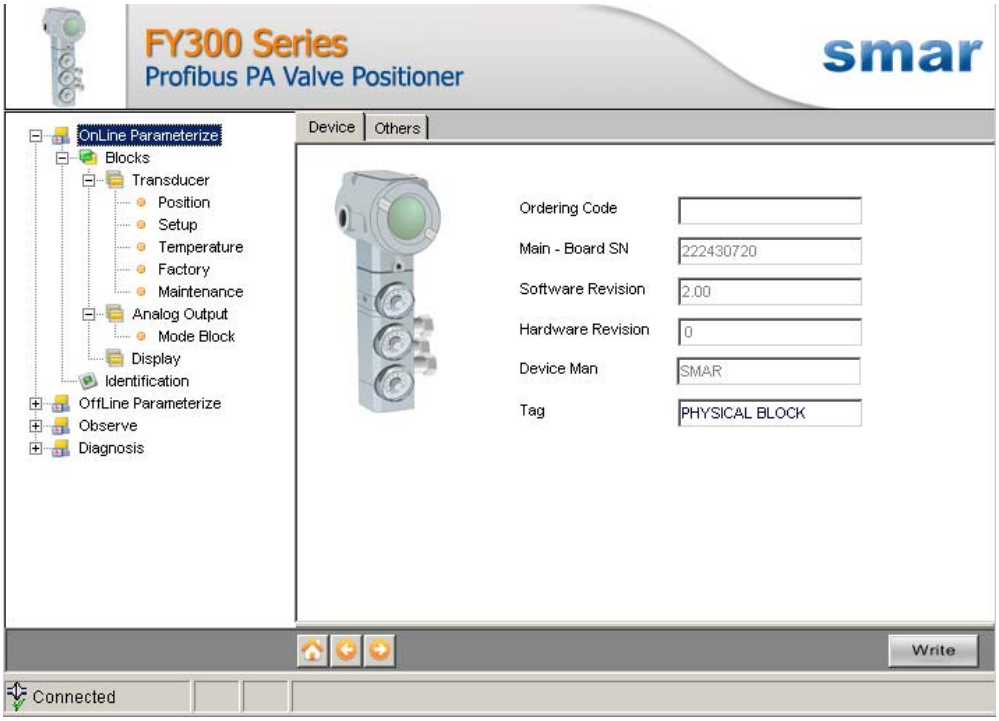
smar - FY303DTM

USER'S MANUAL

FY303DTM - Device Type Manager



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FY303DTM

FY303DTMME

smar

www.smar.com

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

INTRODUCTION

FY303DTM is from the family of Smar's DTMs PROFIBUS.

With FY303DTM is possible to have access to many functionalities of FY303 transmitters:

- ✓ Positioner Identification and Manufacturing Data.
- ✓ Pressure Trim.
- ✓ Valve Automatic Setup.
- ✓ Diagnostic.
- ✓ Equipment Configuration.
- ✓ Equipment Maintenance.

For further details about the topics above, refer to the FY303 manual.

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FY303DTM

Pre - Requirements

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

Installation

To do the FY303DTM installation and all Smar's DTMs, run **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.

FY303DTM could be integrated in all frame applications that comply with the version 1.2 of the FDT/DTM standard.

Topology

After FY303DTM 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 the first element from physical topology), the FY303DTM is the last element of topology (represents the FY303).

In many cases, is necessary a DTM gateway type (responsible for communication protocol conversion). The FY303DTM could be used with Communication DTM and Gateway DTM from other manufacturers, if they comply with the FDT 1.2 standard.

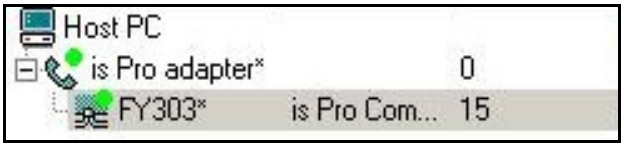

Figure 1 – "Add Device" Screen

Before changing FY303DTM to online, verify in the topology, if the address set in FY303DTM is the same of the FY303 device address. If it is not, change to the correct address through the communication DTM.

While the FY303DTM 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 FY303:

- 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 the 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 relative 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 FY303DTM Online Parameterization navigation tree can be seen. The other options also appear.

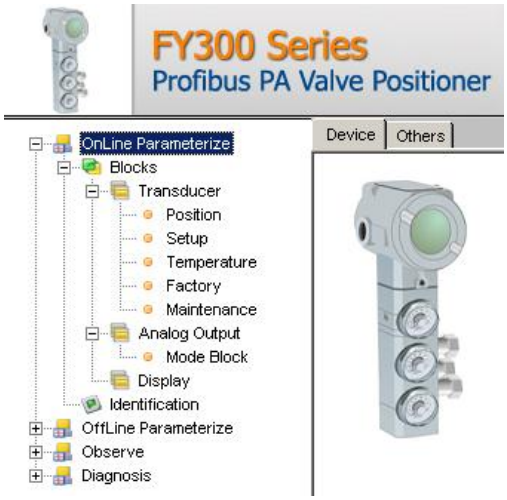

Figure 2 – FY303DTM navigation tree

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:

FY303DTM Functions

Below we have a brief description about each FY303DTM function.

1. **Online Parameterize** – This function is used to make the FY303 online parameterization, is enabled when the FY303DTM is online. The user access level for this function is "Operator" (read only) and "Maintenance" (complete access).

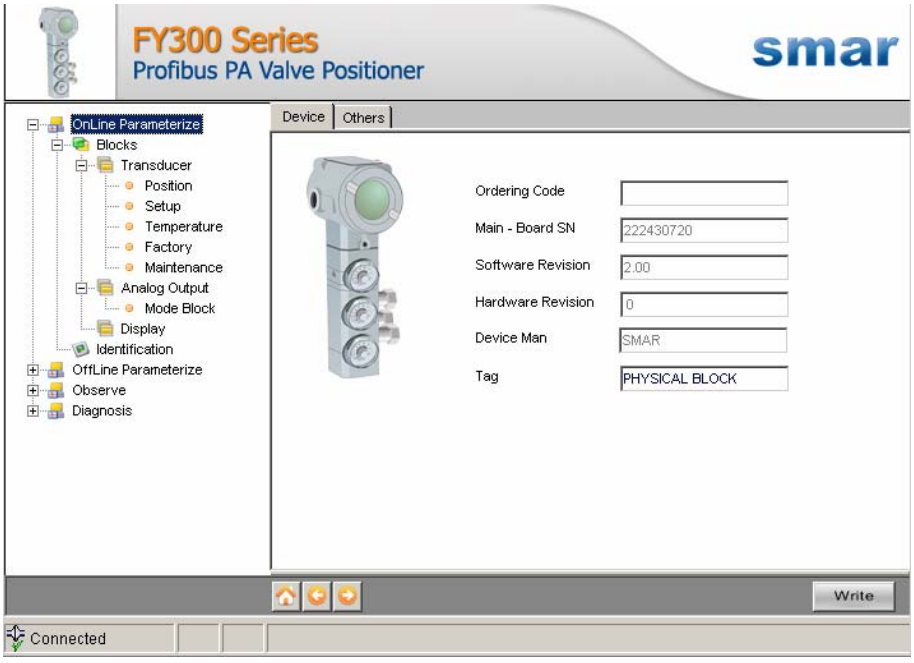

Figure 3 – FY303DTM "Online Parameterize" Screen

2. **Offline Parameterize** - This function is used to make the FY303 offline parameterization, the parameter values configured in this function can be written in FY303 through the **Download** function. The user access level for this function is "Maintenance".

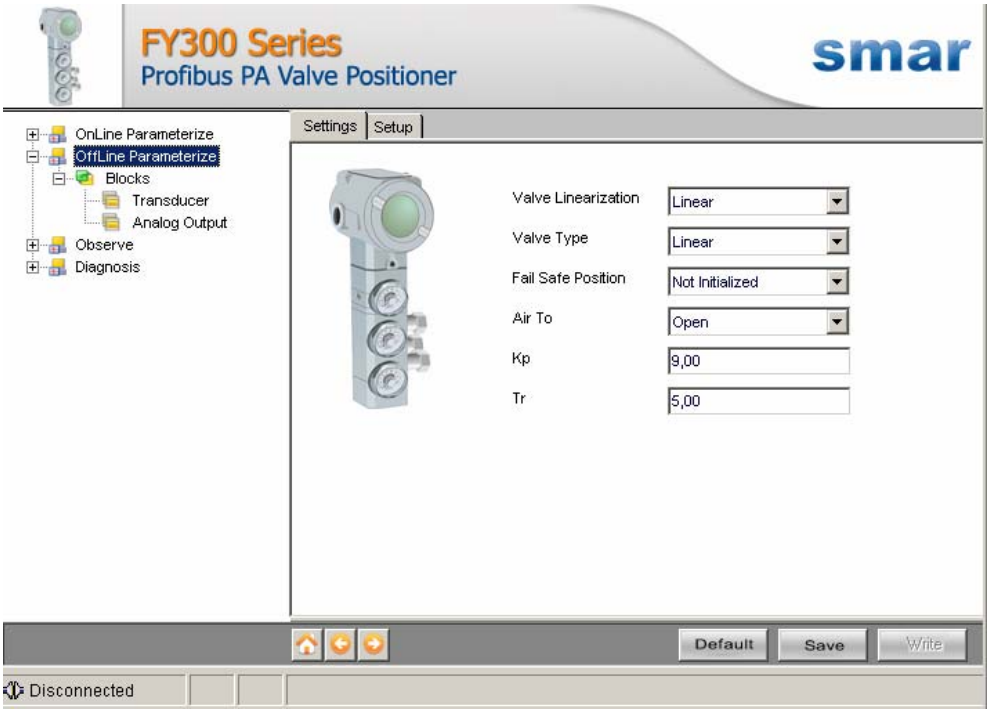

Figure 4 – FY303DTM "Offline Parameterize" Screen

3. **Observe** – Through this function is possible to monitor the main process variables. This function is enabled when the FY303DTM is online. The user access level for this function is "Operator".

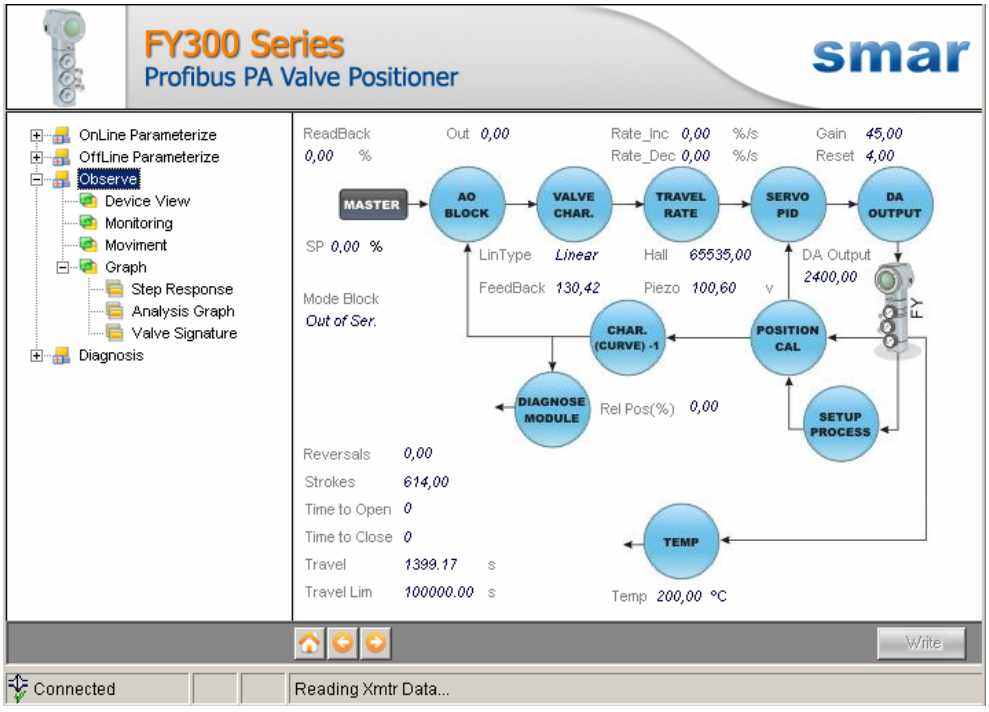

Figure 5 – FY303DTM "Observe" Screen

4. **Diagnosis** – Through this function the user has access to the FY303 diagnostic parameters. This function is enabled when the FY303DTM is online. The user access level for this function is "Operator".

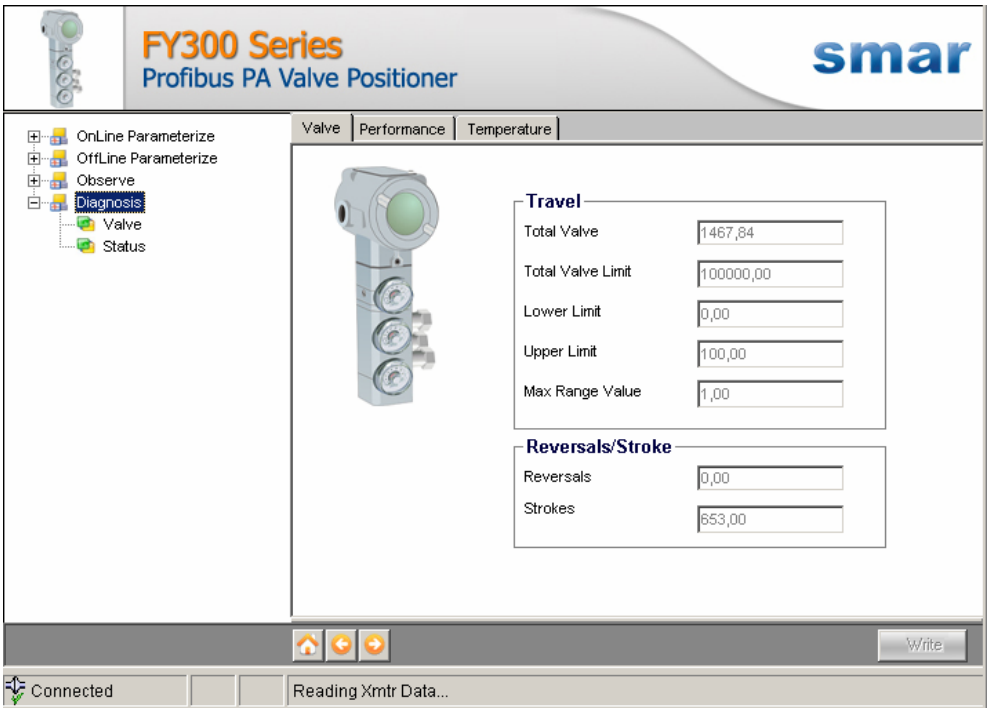

Figure 6 – FY303DTM "Diagnosis" Screen

5. **Upload** - This function reads the FY303 parameters and updates the FY303DTM database with the recent values. This function is enabled when the FY303DTM is online. The user access level for this function is "Maintenance".

6. **Download** - This function writes the parameters configured in the FY303 **Offline Parameterize** function. This function is enabled when the FY303DTM is online. The user access level for this function is "Maintenance".