

LD293DTM - Device Type Manager

LD293 Series
Profibus PA Pressure Transmitter

smar

OnLine Parameterize

- Blocks
 - Transducer
 - Lower/Upper
 - Temperature
 - Charac...
 - Maint
 - Factory
 - Clamp
 - Analog Input
 - Display
- Identification
- OffLine Parameterize
- Observe
- Diagnosis

Ordering Code:

Main - Board SN:

Software Revision:

Hardware Revision:

Tag:

Device Man:

Device ID:

Dev. Serial Number:

Ident. Num. Selector:

[More Info...](#)

Connected





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

LD293DTM is from the family of Smar's PROFIBUS DTMs.

With LD293DTM is possible to have access to many functionalities of LD293 transmitters:

- ✓ Transmitter Identification and Manufacturing Data;
- ✓ Primary Variable Trim – Pressure;
- ✓ Transmitter Adjustment to the Working Range;
- ✓ Engineering Unit Selection;
- ✓ Device Configuration;
- ✓ Equipment Maintenance.

For further details about the topics above, refer to the LD293 manual.

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LD293DTM

Pre - Requirements

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

Installation

To do the LD293DTM 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.

LD293DTM could be integrated in all frame applications that comply with the version 1.2 of the FDT/DTM standard.

Topology

After LD293DTM 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 LD293DTM is the last element of topology (represents the LD293).

In some cases, is necessary a DTM gateway type (responsible for communication protocol conversion). The LD293DTM could be used with communication DTM and Gateway DTM from other manufacturers, if they comply with FDT 1.2 standard.

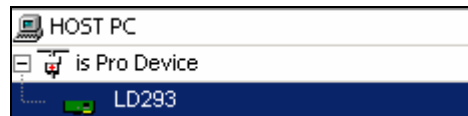


Figure 1 – “Add Device” Screen

Before changing LD293DTM to online, verify in the topology, if the address set in LD293DTM is the same of the LD293 device address. If it is not, change to the correct address through the DTM communication.

While the LD293DTM 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 LD293:

- 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 LD293DTM Online Parameterization navigation tree can be seen. The other options also appear.

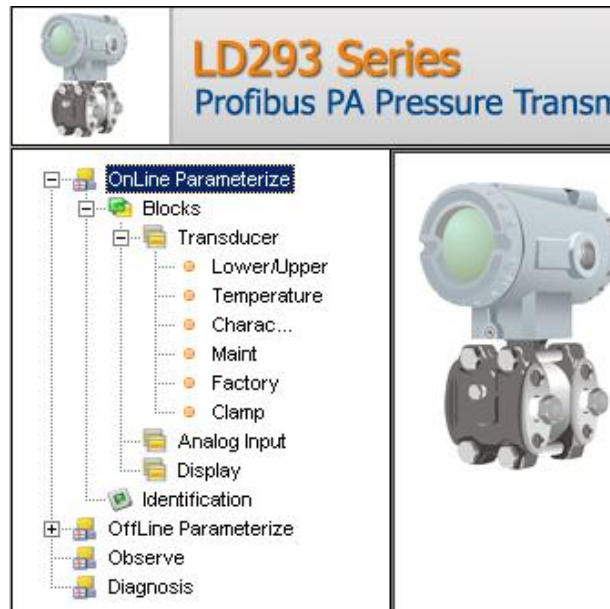



Figure 2 – LD293DTM navigation tree

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:



LD293DTM Functions

Below we have a brief description about each LD293DTM function.

1. **Online Parameterize** – This function is used to do the LD293 online parameterization, is enabled when the LD293DTM is online. The user level access for this function is “Operator” (read only) and “Maintenance” (complete access).

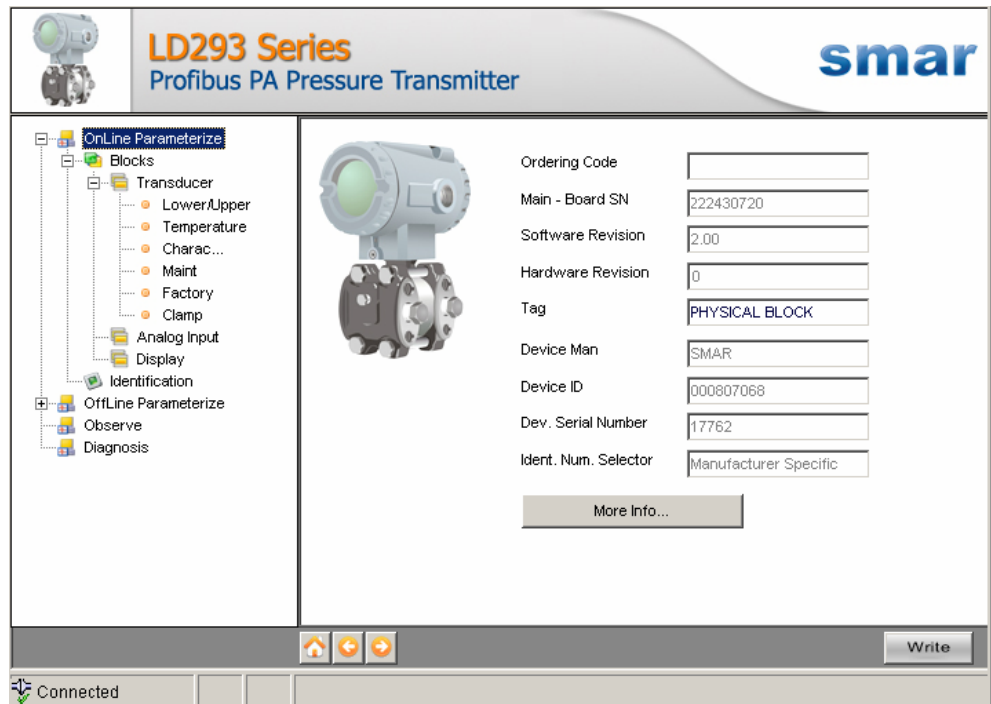


Figure 3 – LD293DTM “Online Parameterize” Screen

2. **Offline Parameterize** - This function is used to make the LD293 offline parameterization, the parameter values configured in this function can be written in LD293 through the **Download** function. The user level access for this function is “Maintenance”.

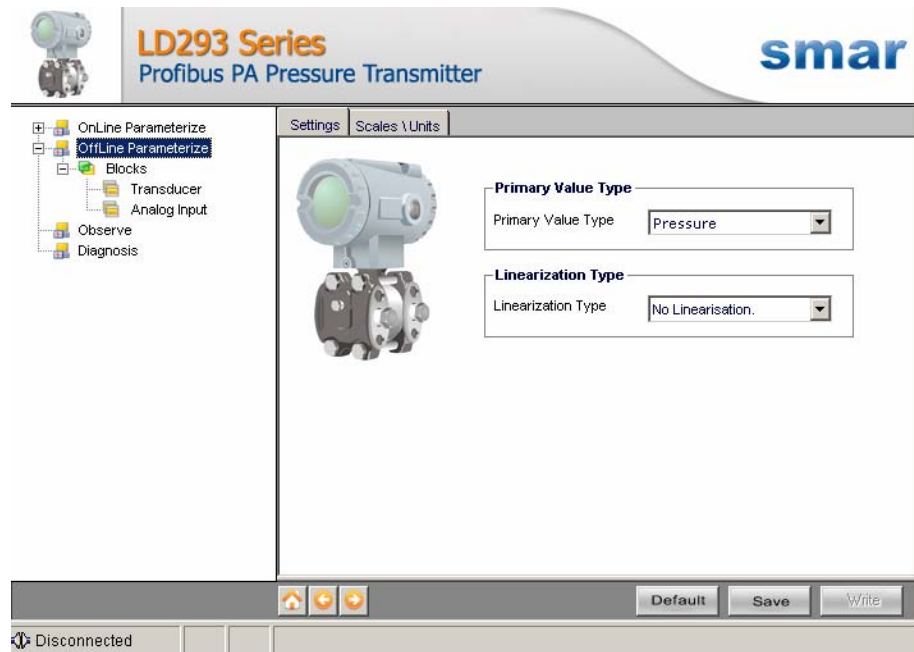


Figure 4 – LD293DTM “Offline Parameterize” Screen

3. **Observe** – Through this function is possible to monitor the main process variables. This function is enabled when the LD293DTM is online. The user level access for this function is “Operator”.

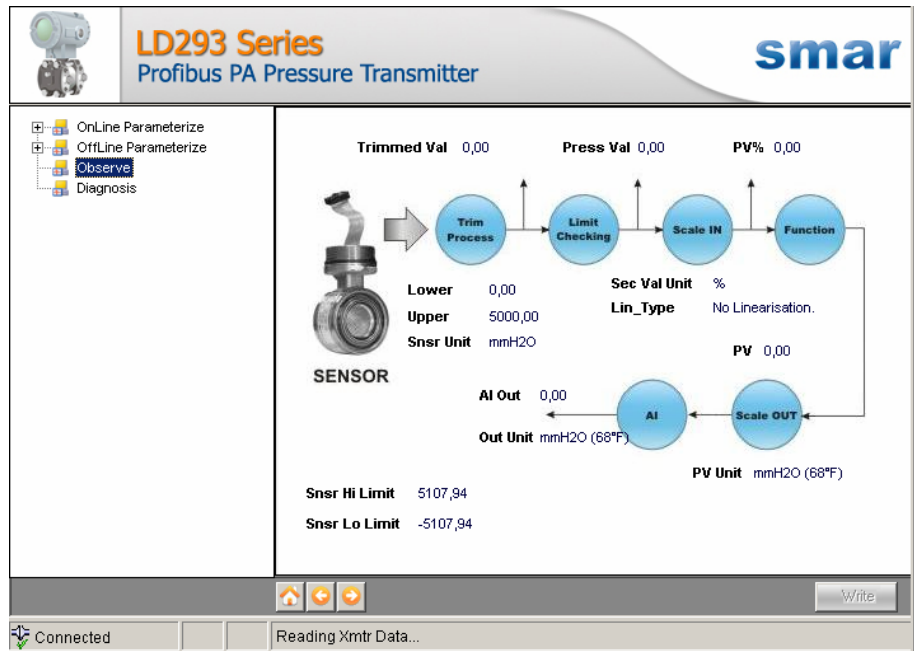


Figure 5 – LD293DTM “Observe” Screen

4. **Diagnosis** – Through this function the user has access to the LD293 diagnostic parameters. This function is enabled when the LD293DTM is online. The user level access for this function is “Operator”.

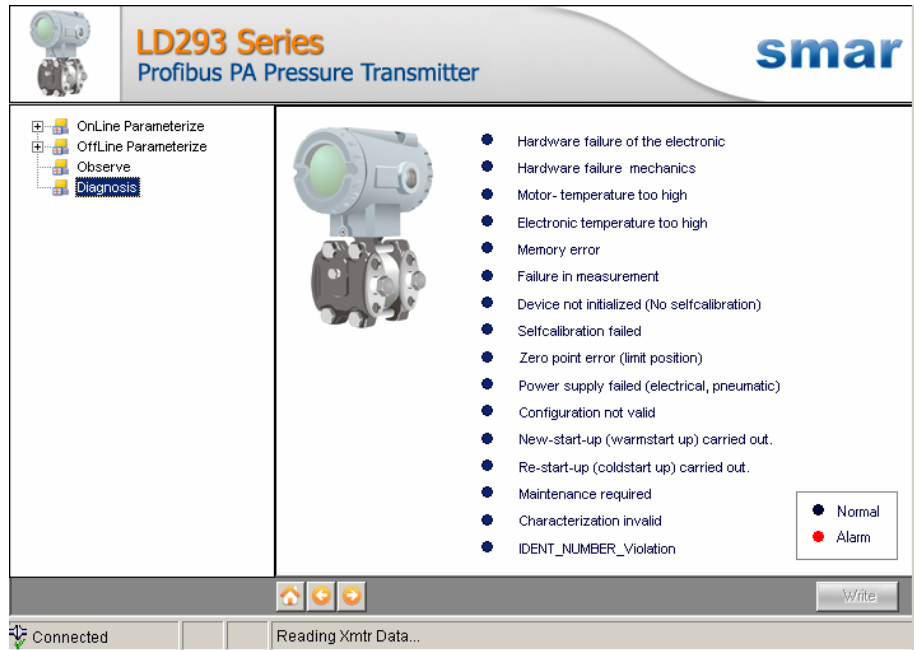


Figure 6 – LD293DTM “Diagnosis” Screen

5. **Upload** - This function reads the LD293 parameters and updates the LD293DTM database with the recent values. This function is enabled when the LD293DTM is online. The user level access for this function is “Maintenance”.
6. **Download** - This function writes the parameters configured in the LD293 **Offline Parameterize** function. This function is enabled when the LD293DTM is online. The user level access for this function is “Maintenance”.