TP303DTM

TP303DTM - Device Type Manager

TP303 Se Profibus PA F	ries Position Transmitter			smar
OnLine Parameterize Blocks Lower/Upper Transducer Temperature Analog Input Totalizer Preset Display Meditification OffLine Parameterize Joserve Joserve Joserve Joserve Josephan		Ordering Code Main - Board SN Software Revision Hardware Revision Tag Device Man Device ID Dev. Serial # Module Serial #	222430720 2.00 0 TP303 SMAR 000806439 1	
	↑ ○ ○			Write
∜ Connected	Reading Xmtr Data			

JAN / 09 **TP303DTM**





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

TP303DTM is from the family of Smar's PROFIBUS DTMs. With TP303DTM is possible to have access to many functionalities of TP303 transmitters:

- ✓ Transmitter Identification and Manufacturing Data.
- ✓ Position Trim.
- ✓ Temperature Trim.
- ✓ Device Configuration.
- ✓ Device Maintenance.

For further details about topics above, refer to the TP303 manual.

TABLE OF CONTENTS

P303DTM
Installation
Topology
Layout
TP303DTM Functions

TP303DTM

Pre - Requirements

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

Installation

To do the TP303DTM 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.

TP303DTM could be integrated in all frame applications that comply with the version 1.2 of the FDT/DTM standard.

Topology

After TP303DTM 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 computer and the first element from physical topology), the TP303DTM is the last element of topology (represents the TP303).

In many cases, is necessary a DTM gateway type (responsible for communication protocol conversion). The TP303DTM could be used with Communication DTM and Gateway DTM from other manufacturers, if they comply with FDT 1.2 standard.

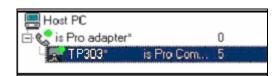


Figure 1 - "Add Device" Screen

Before changing TP303DTM to online, verify in the topology, if the address set in TP303DTM is the same of the TP303 device address. If it is not, change to the correct address through the communication DTM.

While the TP303DTM 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 TP303:

- 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 instrument.

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 TP303DTM Online Parameterization navigation tree can be seen. The other options also appear.

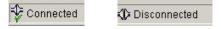


Figure 2 - TP303DTM navigation tree

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



The communication status can be verified - connected or disconnected:



TP303DTM Functions

Below we have a brief description about each TP303DTM function.

 Online Parameterize – This function is used to do the TP303 online parameterization, is enabled when the TP303DTM is online. The user level access for this function is "Operator" (read only) and "Maintenance" (complete access).

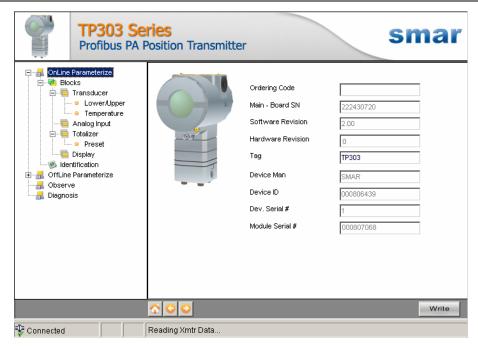


Figure 3 - TP303DTM "Online Parameterize" Screen

2. **Offline Parameterize** - This function is used to make the TP303 offline parameterization, the parameter values configured in this function can be written in TP303 through the **Download** function. The user level access for this function is "Maintenance".

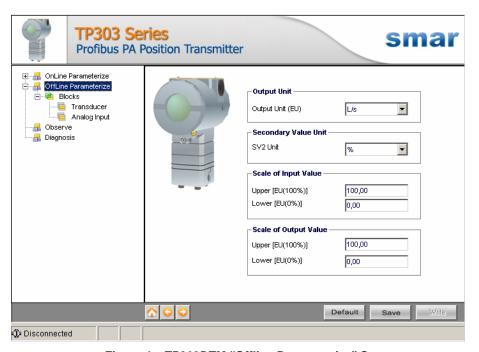


Figure 4 – TP303DTM "Offline Parameterize" Screen

3. **Observe** – Through this function is possible monitoring the TP303 process variables. This function is enabled when the TP303DTM is online. The user level access for this function is "Operator".

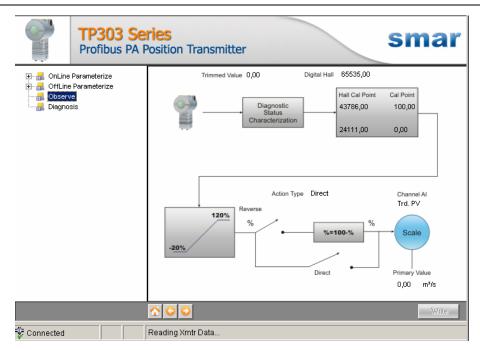


Figure 5 - TP303DTM "Observe" Screen

Diagnosis – Through this function the user has access to the TP303 diagnostic parameters.
 This function is enabled when the TP303DTM is online. The user level access for this function is "Operator".

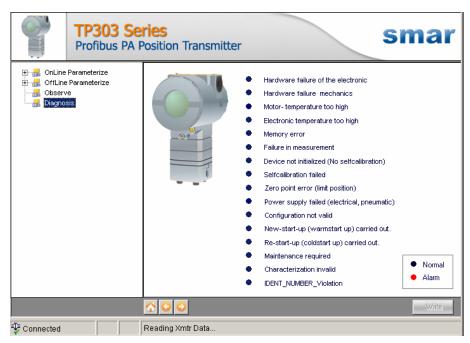


Figure 6 - TP303DTM "Diagnosis" Screen

- Upload This function reads the TP303 parameters and updates the TP303DTM database with the recent values. This function is enabled when the TP303DTM is online. The user level access for this function is "Maintenance".
- 6. **Download** This function writes the parameters configured in the TP303 **Offline Parameterize** function. This function is enabled when the TP303DTM is online. The user level access for this function is "Maintenance".