



PBI-PLUS

PROFIBUS-PA

USB INTERFACE FOR PROFIBUS-PA

- Intelligent and powerful communication interface for PROFIBUS-PA devices and a PC-based USB port.
- Allows to monitor and configure any PROFIBUS-PA device with many FDT/DTM based configuration or maintenance softwares.
- Communication standard conform IEC61158-2, 31.25 kbits/s for fieldbus (PROFIBUS-PA).
- An extremely versatile tool that can be used as easy with offline devices as well as directly on a live network.
- Capable of providing power to a Profibus PA device when set to "local". No further hardware is required.
- Compact and lightweight tool, ideal for any day to day maintenance task.



smar

The **PBI-PLUS** is a unique USB interface developed for direct communication between an engineering or maintenance software and a Profibus PA device. The **PBI-PLUS** is compatible with Smar AssetView and Smar ProfibusView software but also with many other FDT/DTM based software tools.

The driver provided with the **PBI-PLUS** installation package will create a virtual serial port. Your maintenance or engineering software can communicate with a Profibus PA device using the DTM.

The all new **PBI-PLUS** interface is the ideal tool for connecting to a Profibus PA network, direct on the network or offline. It is easy to use, transparent, and does not require any additional hardware like power supplies or DP/PA couplers.

Connection Diagram

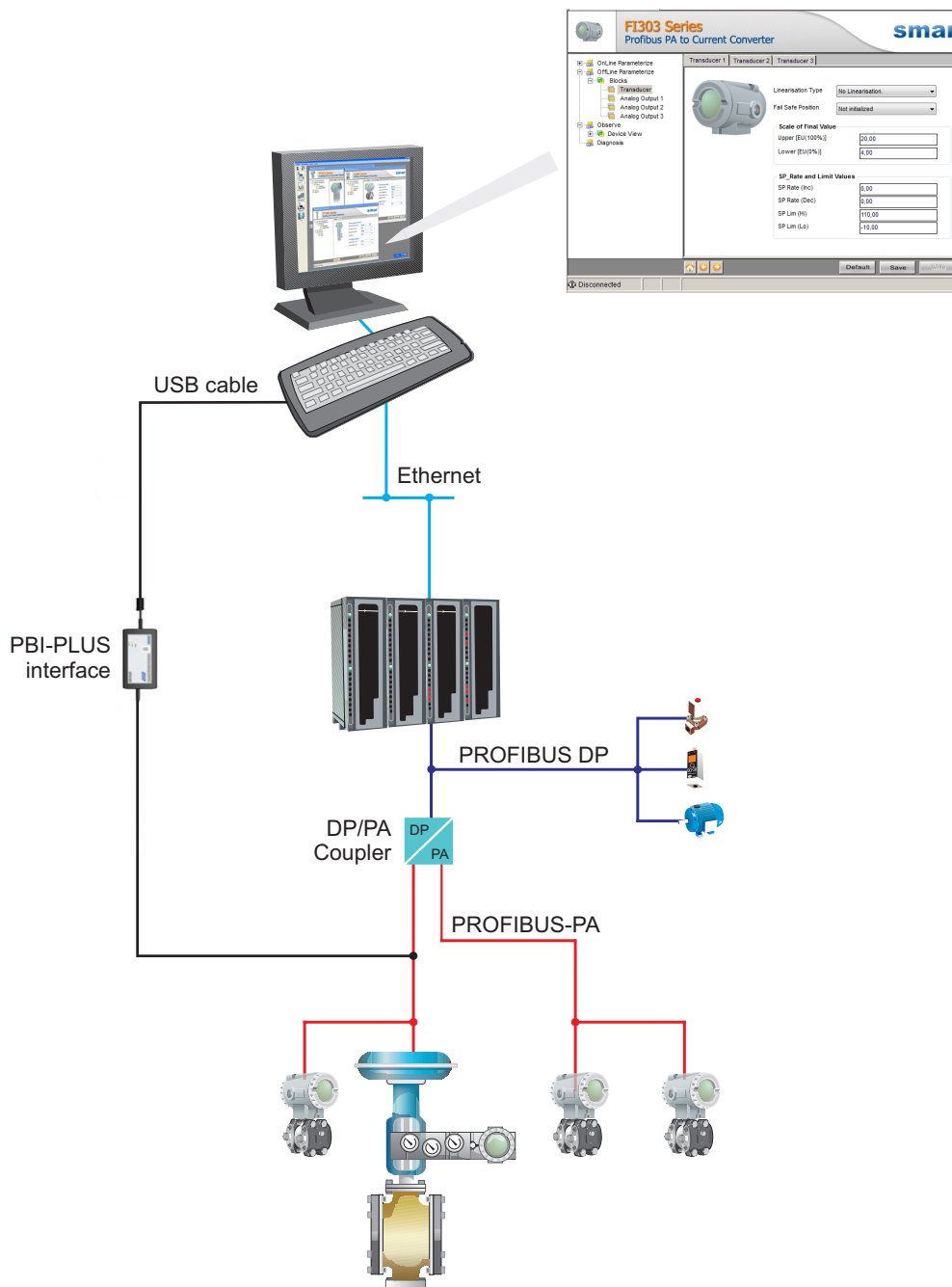


Figure 1 - Connecting to the PROFIBUS-PA network

NOTE WHEN USING THE SMAR DF95 AND DF97 CONTROLLERS

As the Smar DF95 and DF97 controllers already incorporate the PBI-PLUS functionality, it is not possible to use the PBI-PLUS in conjunction with these controllers.

Functional Specifications

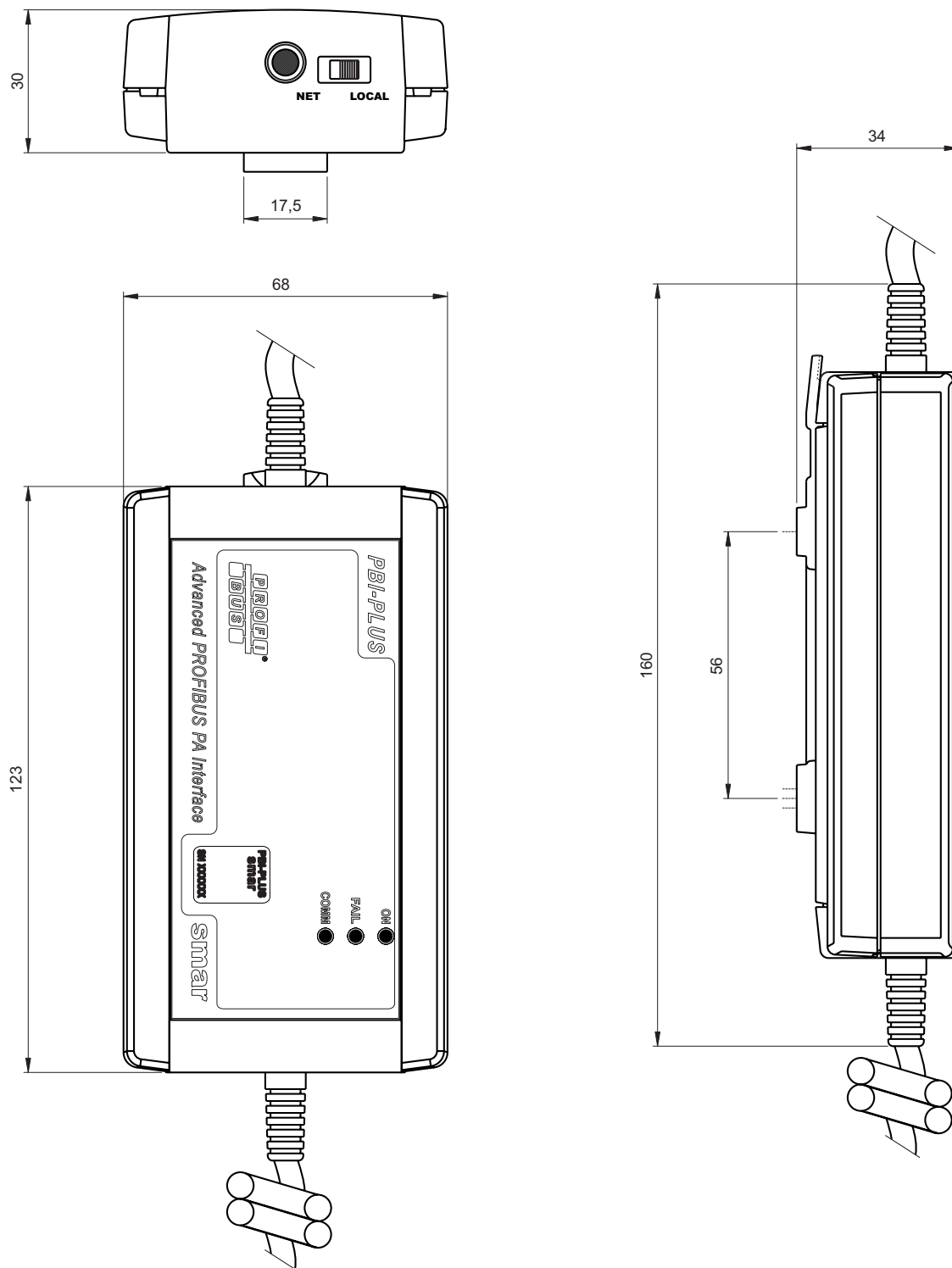
Power Supply	Via USB 5 Vdc port Compativelible with USB 1.1 and USB 2.0					
Open Voltage 15.15 Vdc	Voltage with 12 mA output 14.9 Vdc USB current 5 Vdc x 35 mA Voltage with 36 mA 13,2 Vdc USB current 5 x 80 mA Output current – 96 mA USB short current – 142 mA					
Communication Standard	IEC 1158-2, 31.25 kbits/s for Fieldbus. (Foundation Fieldbus and PROFIBUS PA).					
Indicator	ON – Led indicates the interface is connected to USB port. COMM – Led indicates the interface started the communication with the device. FAIL - Led light when the interface is in local mode and a short-circuit occurs in the device power terminals.					
Certifications in Hazardous Locations	It is not certified to be used in potentially explosive atmospheres.					
Temperature Limit	Operation:	0	a	50	°C	@ 10 a 90 RH (noncondensing)
	Storage:	-30	a	70	°C	@ 5 a 90 RH (noncondensing)
Configuration	PBI-PLUS is a device used to interface the communication between Profibus PA devices and configuration software. The software used for configuration of the devices is ProfibusView or AssetView from Smar, or any software based on FDT/DTM technology. Licenses necessary (Writing license for ProfibusView, or 4-Devices fully operational Demo license for AssetView SA or/and free comm.DTM for any other FDT/DTM based software).					
Minimum System Requirement	Processor de 1 GHz 2 GB RAM 5 GB of free disk space Windows XP 32 bits SP3 A complementary list of approved operational systems is listed below: Windows 7 64 bits Professional (running in 32 bits compatibility mode) Windows 7 64 bits Ultimate (running in 32 bits compatibility mode) Windows 7 64 bits Enterprise (running in 32 bits compatibility mode) Windows Server2008 64 bits SP2 (running in 32bits compatibility mode) Windows XP 32 bits SP3 Windows Server2003 32 bits SP2					

Performance Specifications

Electromagnetic Interference Effect	Compatible with IEC61326-1 EMI immunity standard.
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Physical Specifications

Cable	With USB connection at the host system side and with retractable claws at the instrumentation side.
Insulation	Galvanic insulation between Profibus and USB port.
Material	Injected ABS plastic enclosure.
Dimensions	123 x 68 x 30 (mm)



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Specifications may be subject to change without prior notice.
Please visit our website for latest information.

web: www.smar.com



PBI PLUS CE