PROFIBUS DP/PA Slave Diagnostics generates detailed information about the devices (slaves) connected to the PROFIBUS DP/PA and presents it online on an operator station. It works with both the PROFIBUS DP/PA itself and its redundant variant.

The challenge
Operators in a control room have access to all status information and parameters relevant to the process to be controlled. Availability and stability are as important as the ability to identify the controller status. Until now, additional engineering tools have been necessary for this purpose.

Our solution
We offer complete system diagnostics for the slaves connected to the PROFIBUS in the framework of our SIMATIC Add-ons. The status of the instrumentation and control equipment can now be displayed directly in the SIMATIC PCS 7/WinCC based control room. Your WinCC operator station can supply detailed information about the individual slaves as soon as the diagnostic environment has been configured.

Good reasons for
PROFIBUS DP/PA Slave Diagnostics:
- No need for additional engineering tools
- Engineering in a few easy steps
- Simple change tracking in the hardware configuration – online at any time in WinCC
- All relevant information about the configured slaves is accessible quickly and reliably
- Diagnostics are completely independent of engineering tools at runtime
- All DP/PA slaves supported by STEP 7 can be visualized
- Diagnostic repeaters and slaves connected downstream of the diagnostic repeaters can be diagnosed

System diagnostics – PROFIBUS DP/PA Slave Diagnostics
Visualization and diagnostics for devices on the PROFIBUS DP/PA
This Add-on, consisting of SIMATIC and Windows components, can also be integrated into any PCS 7 or STEP 7 project at any time in the future. The visualization component is excellently suited for use in a PCS 7 OS or WinCC environment – although PROFIBUS DP/PA Slave Diagnostics integrates just as effortlessly into other applications. No special engineering know-how is needed, providing you are already familiar with SIMATIC PCS 7 or STEP 7/WinCC.

**Six easy steps to reach your goal:**

**STEP 7**
- Insert the diagnostic block in the S7 program
- Export the hardware configuration (cfg-file)
- Transfer the block variables to WinCC (AS/OS-Transfer)

**WinCC**
- Insert the diagnostic OCX in the WinCC picture
- Connect the transferred block variables to the diagnostic OCX
- Specify the path of the exported HW configuration (cfg-file)

Once the diagnostic system has been configured, the engineering environment is no longer necessary.

**One license per station – any number of CPUs**

One license must be purchased for each operator station on which you want to use PROFIBUS DP/DA Slave Diagnostics. It makes no difference whether this station is a single-user station, a server, a UniClient, or a MultiClient. Your great advantage: You can monitor any number of DP master systems with up to 125 slave nodes each on every operator station.

**Languages supported**
- German
- English

**System requirements**

**Operating systems**
The system diagnostics is released for the following operating systems:
- MS Windows 2000 Professional SP4 – MUI
- MS Windows XP Professional SP2 – MUI
- MS Windows 2003 Server SP1 – MUI

**PCS 7 Users**
1. Operating system: same requirements as for PCS 7
2. Released for PCS 7 V6.x to V7.1

**STEP 7/WinCC Users**
1. Operating systems: same requirements as for WinCC/STEP 7
2. MS Internet Explorer V6.0 + SP1
3. From STEP 7 V5.3 + SP3, WinCC V6.0 + SP3 to V6.2.2 and Automation License Manager V2.0

**Stand-alone**
1. MS Internet Explorer V6.0 + SP1
2. From STEP 7 V5.3 + SP3 and Automation License Manager V2.0
3. From SIMATIC NET OPC Server V6.3 + HF1

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