



## PROFIBUS NetTEST II

### PROFIBUS Analysis Tool

#### Description

No more nerve-racking and expensive search for installation errors in PROFIBUS segments!

NetTEST II represents the 2nd generation of hand-held PROFIBUS test tools developed by COMSOFT. It provides an immediate, extensive report, revealing errors of installation and fitting in PROFIBUS segments. NetTEST II's field of application is not restricted to diagnostics in running systems. One of the main purposes of NetTEST II is to allow the installer – whether he has made any installation errors. Therefore, sporadic errors caused by incorrect bus physics can be excluded from the very beginning.

NetTEST II gives information on: short circuit, cable rupture or broken shield, mixed up cables, wrong number of terminations, not powered terminations, not terminated cables, tap lines, cable length, line impedance, inhomogeneous cables in the segment, PROFIBUS baud rate, PROFIBUS live list, participant selective RS485 signal level, reflections with peak-peak value

detection. NetTEST II is equipped with a data memory for storage of up to 20 detailed test reports in ASCII format according to the installation guideline of the PNO (PROFIBUS User Organization). If necessary, these can be printed out via a COTS PC.

NetTEST II is operated via a 6 x 4 keyboard and a fully graphical 128 x 64 Pixel LCD-Display with background illumination. The user is menu-guided through the different tests. It is also possible to select a certain test directly.

#### DP-Mono-Master Function

Another highlight is the optional DP-Mono-Master function of NetTEST II. The I/O Data of the connected DP Slaves can be visualised and modified without the use of the provided PLC. This facilitates a most efficient control of the connected sensors/actuators. The time consuming tests of functionality by use of PLC can be omitted. Further features are the detailed display of incoming diagnosis messages and the well-aimed execution of specific PROFIBUS services.

#### Online Function

Since the traffic on a PROFIBUS line must by no means be interrupted, active/ ongoing measuring methods on a continuously running unit are not an option for the detection of installation problems on PROFIBUS lines. In order to meet these requirements, the NetTEST II was enhanced with new and very efficient online measurement methods providing precise information about existing installation problems even on a running PROFIBUS network.

The NetTEST II in this case runs in a completely passive monitoring mode and performs a detailed analysis of the data traffic as well as the physical state of the PROFIBUS line.

NetTEST II comes with the following Online functionalities: Live List, measurement of the signal quality of each DP Slave, rotation time of the whole DP network, analysis of data traffic between DP Master and DP Slave, triggering upon communication status changes.

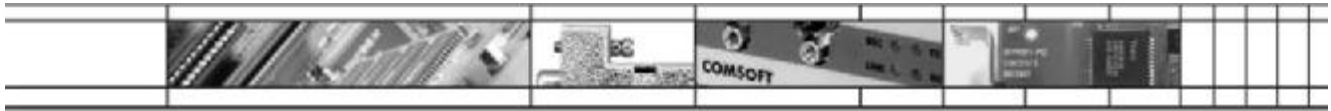
Simply high-tech in hand-held format!



*NetTEST II service case*



*NetTEST II hand-held*



## Technical Data

Power Supply	Battery pack 4,8 V/1.500 mAh NiMH
Connections	PROFIBUS RS485 (DB9 socket connector) RS232 (DB9 socket connector)
Dimensions	230mm x 98mm x 53mm (LxWxH)

## Order Numbers

Order No.	Item
4000-7-0 6 C -H	NetTEST II Basic System in service case, including 2 batteries, international battery charger, power supply adapter, RS232-cable, PROFIBUS stub line, PROFIBUS T-connector, bus disconnecter, 3 gender changers, PROFIBUS configurator, user manual
4000-7-0 6 C -M	NetTEST II DP-Mono-Master Package Basic System + DP-Mono-Master Functionality
4000-7-0 6 C -O	NetTEST II Online Package Basic System + Online Functionality
4000-7-0 6 C -K	NetTEST II Over All Package Basic System + DP-Mono-Master + Online Functionality
4000-7-0 6 C -J	NetTEST II DP-Mono-Master Option Upgrade for existing devices*
4000-7-0 6 C -L	NetTEST II Online Option Upgrade for existing devices*
4000-7-0 6 C -N	NetTEST II DP-Mono-Master & Online Option Upgrade for existing devices*
4000-7-0 0 -H	Additional Equipment
1	PROFIBUS T-connector type A
2	Line termination cable type A
4	PROFIBUS stub line (0,15 m) type A
5	RS232-cable for NetTEST II
6	Gender changer DB 9, male-male 1:1
7	Gender changer DB 9, female-female 1:1
8	Gender changer DB 9, male-female 1:1
A	PROFIBUS bus disconnecter
D	Power supply adapter
4000-7-0 2 C -L	Battery charger shell
4000-7-0 2 C -S	Plug for battery charger
4000-7-0 3 C -H	Extra Battery for NetTEST II
4000-7-0 4 C -H	Branch line for terminal clamp
4000-7-0 6 C -I	International power supply
4000-7-0 7 C -K	NetTEST II Calibration
4000-7-0 7 C -H	4 Weeks Rental within the EU region PROFIBUS NetTEST II set of your choice

\* Upgrade up to hardware revision 03 on request.