

COMSOFT

PROFI[®]
PROCESS FIELD BUS
BUS



LabVIEW



FNL

**Fieldbus Network Link
Ethernet/PROFIBUS Gateway**

FNL – The Gateway for the PROFIBUS Connection with Ethernet

Today the industry has to deal with very complex and differentiated operations and sequences. Therefore the desire for a continuous and seamless connection to the field level data is growing more and more. The target is to start up, configure and diagnose all field devices of a plant in a direct and simple way. The connection to the PROFIBUS data should be realised via a standard interface.

COMSOFT's solution is called FNL. The small sized, Ethernet based hat rail module allows the connection to all copper based PROFIBUS DP networks.

FNL & PROFIBUS save time and money. E.g. the online diagnostics of the connected field devices indicates exactly which are working correctly and which are not. Detailed error analysis for problem location as well as any necessary reconfiguration may be carried out at any time. Field device calibration, e.g. after a device has been replaced, it can be verified and documented from a single work station rather than connecting each one individually by hand.

FNL can be integrated trouble-free through the TCP/IP based Ethernet interface in existing as well as new systems. The connection to the PROFIBUS data can be made very easily and efficiently through

the completely well documented TCP/IP socket interface. Such decentralised communication solutions can be even implemented in very extensive plants, e.g. via satellite or VPN (Virtual Private Network). Through the TCP/IP socket interface it is also possible to integrate the COMSOFT LabVIEW driver, containing detailed example VIs and source code.

Another attractive access option is the OPC Server. The PROFIBUS data can be made available directly to all OPC-client-capable Windows applications through the Ethernet interface.

The gateway can be combined with established engineering tools at any time. Via COMSOFT's certified FDT 1.2 Communication DTM FNL can be integrated in any FDT container application and allows

the realisation of a decentralised Asset Management solution. The key feature of FDT (Field Device Tool) is its independence from the communication protocol and the software environment of either the device or the host system. FDT allows any device to be accessed from any host through any bus protocol.

The Ethernet based operation mode as Modbus TCP/IP Slave provides easy integration of FNL as PROFIBUS DP Master into a large number of visualisation and control systems. COMSOFT's CONFIGURATOR II is available for the compilation and download of the PROFIBUS configuration. The PROFIBUS DP based diagnostic and IO data are dynamically compiled into the Modbus TCP/IP structure and do not have to be configured additionally.

Technical Data

Supported PROFIBUS Protocol Versions	DP/DPV1	Master class 1/2 and DP Slave
Supported Ethernet Protocol Versions	TCP/IP Socket Modbus TCP/IP Slave	
Interfaces	Ethernet PROFIBUS Service Interface	10/100 BaseT RS485 (DB9) RS232
Baud Rates	Ethernet PROFIBUS RS485 RS232	max. 100 Mbit/s max. 12 Mbit/s 57.6 Kbit/s
Power Supply	24 VDC	

Manufacturer:

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