



PB-INSpektor® NT

Compact INSpektor® – PROFIBUS-INSpektor® NT



The compact **PROFIBUS-INSpektor® NT** is the simplest solution for distributed data logging in PROFIBUS networks. This method can be implemented immediately without special configuration effort to capture all logical quality parameters in a network.

The compact version combines all necessary functions for diagnostics, alarms and reading of data in one device. This functionality allows the **INSpektor®** to be used as a mobile device for acceptance and service (see page 10).



INBLOX®

Modular INSpektor® – INBLOX®



Ethernet head module

The modular **INBLOX®** system offers multiple configuration options. Up to five expansion modules can be connected to the basic Ethernet head module. Each of these modules can provide different functions for network diagnostics.

In the version as a modular **INSpektor®**, the **INBLOX®** system allows for simultaneous monitoring of up to ten networks. In addition to analysing PROFIBUS DP networks, expansion modules for PROFIBUS PA networks as well as a master module for parametrisation via FDT/DTM.

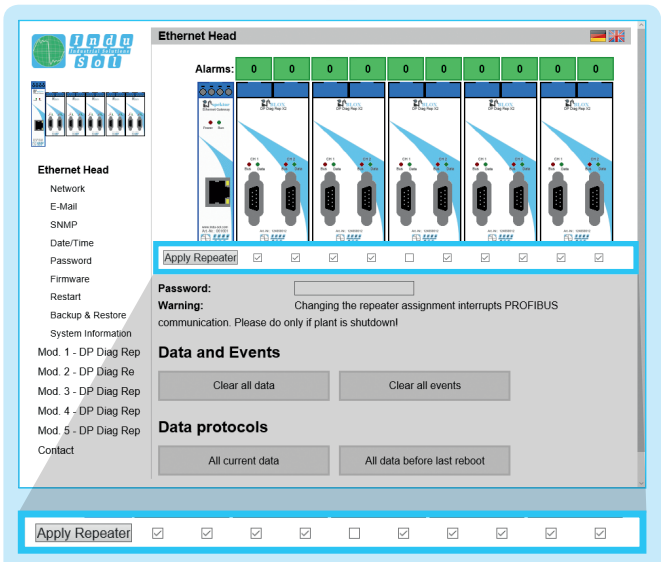


Fig. 16: Switching from INSpektor® to repeater with a rear panel bus

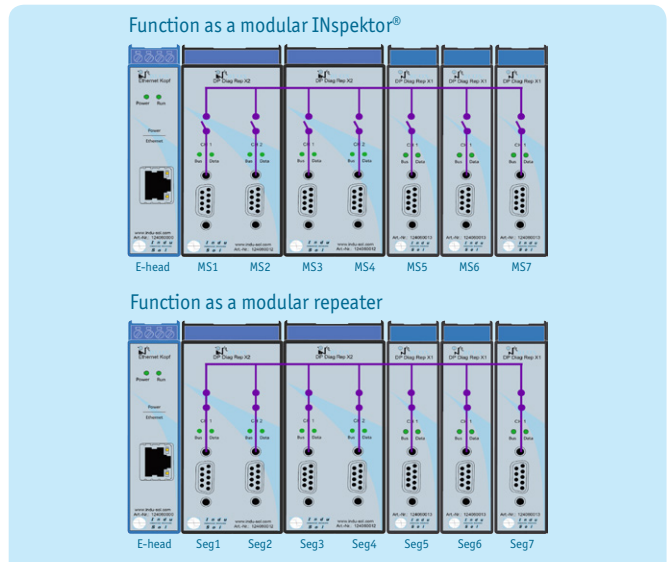


Fig. 17: Explanation of the rear panel bus



From modular INspektor® to the repeater (INBLOX®)

Repeater function

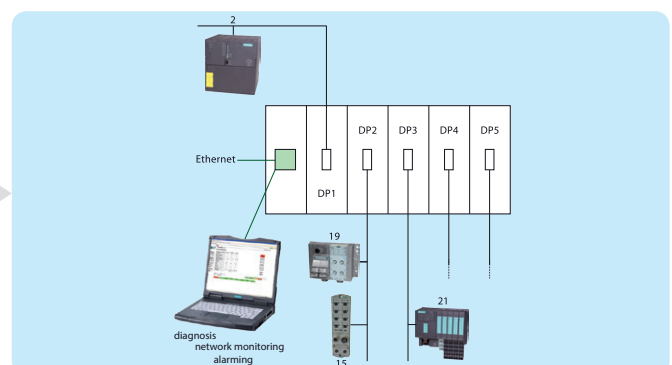
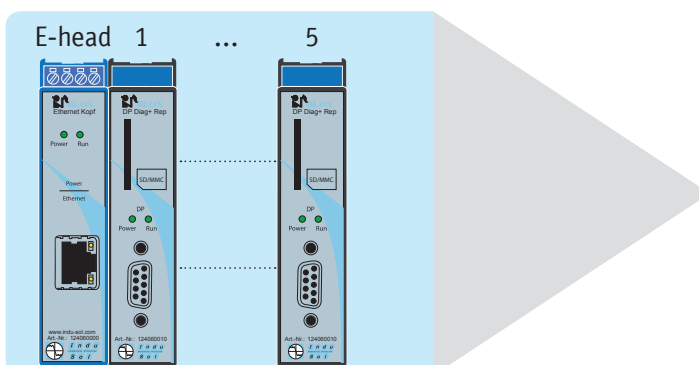
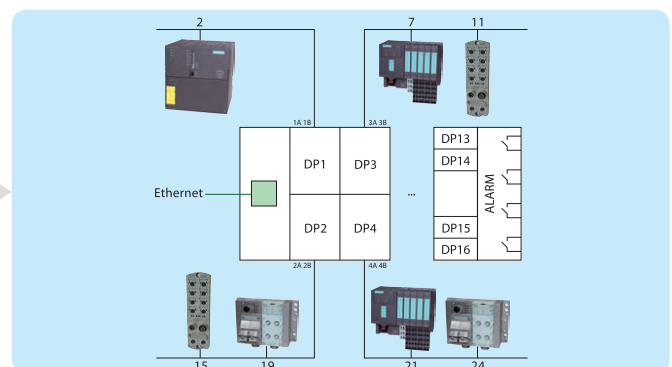
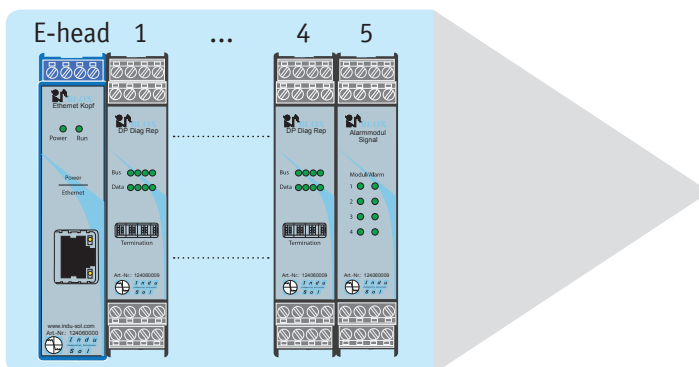
In addition to providing distributed data logging, the **INBLOX®** system has a modular repeater function. In this version, the individual expansion modules can be linked via the repeater function to provide segment-based diagnostics.

The **DP Diag Rep X4** expansion modules provide monitoring of up to twenty PROFIBUS segments for logical quality parameters with only a single **INBLOX®** system. In addition to logical diagnostics, expansion with the **DP Diag+ Rep** modules also provides for permanent physical analysis of the signal shape.

By combining these three functions (logical and physical evaluation and repeater functionality), operators are always informed of the quality of each PROFIBUS segment. Periodical online measurements to evaluate the signal shape are a thing of the past.



Example modular repeater configuration



INBLOX® module versions

Identification for logical or physical analysis



DP Diag Rep X1



DP Diag Rep X1

The **DP Diag Rep X1** expansion module is used to monitor the data communication in a PROFIBUS network for logical quality parameters. With additional expansion modules, several networks can be monitored in parallel. The integrated repeater function enables subdividing the network into individual segments.

DP Diag Rep X2



DP Diag Rep X2

The **DP Diag Rep X2** is used for logical network analysis at the two existing SUB-D interfaces. Depending on the setting, each interface be used to either monitor a separate PROFIBUS network or activate the repeater function. Up to ten master systems can be monitored in parallel with the **INBLOX®** system.

DP Diag Rep X4



DP Diag Rep X4

The **DP Diag Rep X4** expansion allows to run up to four galvanically isolated PROFIBUS segments – one per connection terminal – and perform a logical network analysis. Depending on the configuration, the module is able to either subdivide a network into four segments for monitoring as a modular **INspektor®**, or structure a network in up to twenty segments as a modular repeater.



INBLOX®

DP Diag+ Rep



DP Diag+ Rep

In addition to logical network analysis, the **DP Diag+ Rep** expansion module offers a possibility to record all physical quality parameters. In addition to the device-specific physical quality value represented as a bar graph, level, edge and glitch errors are also recorded. Depending on the configuration, the module can be used as a modular **INspektor**® or repeater.

PA Diag+



PA Diag+

The **PA Diag+** module is able to monitor, analyse and display two PROFIBUS PA systems simultaneously. It analyses and evaluates both logical and physical parameters. This includes all known quality parameters that also apply to PROFIBUS DP networks.

DP Diag Master



DP Diag Master

The **DP Diag Master** extension offers controller-independent remote access based on the FDT/DTM standards in addition to analysing the connected PROFIBUS network. As a class 2 master, it can be used to parametrise and configure devices and modules via Ethernet.

Alarm module



Alarm module

With the alarm module, the **INBLOX**® system can be expanded by an alarm function that is activated by switching a potential-free contact. It is always wired as the last module and provides a separate switching contact as well as a digital reset input for each expansion module (max. 4). In addition, the statuses of the individual contacts are signalled with LEDs.