

ProfiHub B5

5 channel
PROFIBUS DP
repeater



ProfiHub B5

The ProfiHub B5 is an advanced, flexible and robust IP20 repeater for Profibus DP installations. With this, it is possible to create spur lines and backbone structures with star and tree structures in an IP20 environment.

As innovative components for these kinds of applications, the ProfiHub B5 is nearly perfect. It is a perfect and economic solution for building up operationally reliable spur lines in high speed DP networks. It has the functionality of a transparent 5-times repeater with galvanically isolated channels. This allows network structures with extended spur lines that can individually handle up to 31 devices and have a length equal to the main bus line. The ProfiHub B5 refreshes the received messages on a channel and forwards them to all other channels.

As the ProfiHub B5 creates galvanically isolated segments, the devices can now be removed and added during operation. Furthermore electrical disturbances on the bus and EMC interferences on the spur line do not spread to other segments. The intelligent logic and the isolation circuits of the ProfiHub B5 ensure that the Bit width remains unchanged. So there are no limitations for the serial interconnection at the ProfiHub devices. The intelligent logic detects the transmission speed automatically.

To simplify the installation work the termination is already integrated by terminating resistors and can be switched on and off. Also the grounding concept is selectable: direct or capacitive grounding. The ProfiHubs are powered with 10 to 32 Volts DC. For troubleshooting, maintenance and

commissioning the ProfiHub B5 is equipped with LEDs, which indicate the status of each channel.

Create reliable, flexible and object-related DP installations with the ProfiHub B5.

The ProfiHub B5 is an important and decisive solution in maintenance, if practical and cost-efficient set up or hot swapping is required.

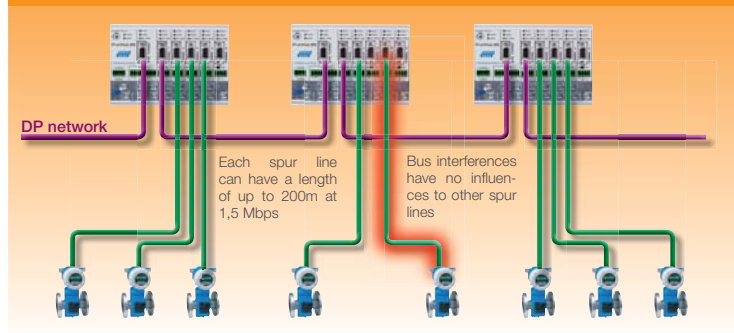
B5

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Product features

- › 5 galvanic isolated channels (repeater segments)
- › Transparent for all PROFIBUS and MPI protocols
- › DP - RS485 specifications for each channel
- › Up to 31 participants per channel
- › 9,6 Kbps - 12 Mbps (automatic baud rate detection)
- › 1200 m spur line length (depends on transmission speed)
- › No limitation at the serial or cascading interconnection
- › No PROFIBUS address required
- › Integrated terminating resistor (disconnectable)
- › LED display to indicate the termination
- › Configurable grounding system (direct or capacitive)
- › Screw contacts as well as DB9 connections available
- › Protection class IP20 (according to DIN 40 050)

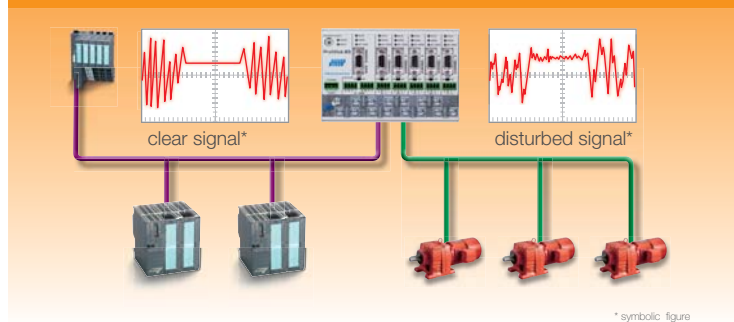
Examples for dynamic spur lines to periphery devices with the possibility of removing or adding devices during operation. For each spur line one short circuit protection is available automatically.



Field of application

- › Dynamic spur lines to rotary drive, flowmeter, pH analyser, etc.
- › Draggable and pluggable motor control center
- › EMC sensitive applications
- › Roof mounted devices in tank facilities
- › Dirty and humid environment
- › Protection against non galvanically isolated devices
- › Large star and tree form structured networks

The protection function of the ProfiHub B5 is a barrier for electrically sensitive segments. The signal quality of the main network and of the other channels remains trouble free.



* symbolic figure

Advantage overview

- › Installation and removal of slaves during operation
- › Highest protection through short circuit safety in each segment
- › Compact and robust installation
- › Display with status and error indication for each channel
- › DB9 and screw contacts can be mixed
- › Suitable for all DP cables
- › High flexibility by easy expandable networks



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