

Instruction Manual for MB*-Based Segment Couplers

Marking

Motherboards for PROFIBUS PA Gateway

MB-FB-GT (motherboard for PROFIBUS PA gateway, simplex),
MB-FB-GTR (motherboard for PROFIBUS PA gateway, redundant)

table 1

Gateway Modules

HD2-GTR-4PA (Segment Coupler, 4 segments),
HD2-GTB-2PA (Segment Coupler, 2 segments)

table 2

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table 3

EC-type-examination certificate: TÜV 04 ATEX 2500 X
Ex II 3 G Ex nA IIC T4 Gc
IECEX TUN 13.0038X
Ex nA IIC T4 Gc

table 4

Validity

Specific processes and instructions in this instruction manual require special provisions to guarantee the safety of the operating personnel.

Target Group, Personnel

Responsibility for planning, assembly, commissioning, operation, maintenance, and dismantling lies with the plant operator.

Mounting, installation, commissioning, operation, maintenance and dismantling of the device may only be carried out by appropriately trained and qualified personnel. The instruction manual must be read and understood.

Reference to Further Documentation

Observe laws, standards, and directives applicable to the intended use and the operating location. Observe Directive 1999/92/EC in relation to hazardous areas.

The corresponding datasheets, declarations of conformity, EC-type-examination certificates, certificates and control drawings if applicable supplement this document. You can find this information under www.pepperl-fuchs.com.

Due to constant revisions, documentation is subject to permanent change. Please refer only to the most up-to-date version, which can be found under www.pepperl-fuchs.com.

Intended Use

The PROFIBUS Power Hub Segment Coupler is part of the Power Hub system and is designed to connect PROFIBUS PA segments to PROFIBUS DP.

The FieldConnex® Power Hub is designed to power segments of the fieldbus according to IEC/EN 61158-2.

The Power Hub consists of a motherboard and power supply modules. Depending on the configuration, further components are gateways and diagnostic modules. See the respective product documentation for these components.

The device is an electrical apparatus for hazardous areas of Zone 2.

The device may be installed in gas groups IIC, IIB and IIA.

The device must only be operated in the specified ambient temperature range and at the specified relative humidity without condensation.

Improper Use

Protection of the personnel and the plant is not ensured if the device is not being used according to its intended use.

The device is only approved for appropriate and intended use. Ignoring these instructions will void any warranty and absolve the manufacturer from any liability.

Mounting and Installation

Prior to mounting, installation, and commissioning of the device you should make yourself familiar with the device and carefully read the instruction manual.

Only manipulate the connections within the specified ambient temperature range.

Temperature range:	-5 C° ... +70 C°
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table 5

Observe the installation instructions according to IEC/EN 60079-14.

Do not mount a damaged or polluted device.

The device may be installed in a corrosive atmosphere according to ISA-S71.04-1985, severity level G3.

Hazardous Area

Gas

Zone 2

Connection or disconnection of energized non-intrinsically safe circuits is only permitted in the absence of a potentially explosive atmosphere.

The device must be installed and operated only in an environment that ensures a pollution degree 2 (or better) according to IEC/EN 60664-1.

The device must be installed and operated only in surrounding enclosures that

- comply with the requirements for surrounding enclosures according to IEC/EN 60079-0,
- are rated with the degree of protection IP54 according to IEC/EN 60529.

Operation, Maintenance, Repair

Prior to using the device you should make yourself familiar with the device and carefully read the instruction manual.

The device must not be repaired, changed or manipulated.

If there is a defect, always replace the device with an original device from Pepperl+Fuchs.

Delivery, Transport, Disposal

Check the packaging and contents for damage.

Check if you have received every item and if the items received are the ones you ordered.

Keep the original packaging. Always store and transport the device in the original packaging.

Store the device in a clean and dry environment. The permitted ambient conditions (see datasheet) must be considered.

Disposing of device, packaging, and possibly contained batteries must be in compliance with the applicable laws and guidelines of the respective country.