Instruction Manual

1. Marking

Fieldbus diagnostic gateway components KT-MB-GT2AD.FF (kit diagnostic gateway), KT-MB-GT2AD.FF.IO (kit diagnostic gateway with I/O), HD2-GT-2AD.FF.IO (diagnostic gateway), MB-FB-GT.AD.FF (diagnostic gateway motherboard) MB-FB-GT.AD.FF.IO (diagnostic gateway motherboard with I/O)
ATEX certificate: TÜV 14 ATEX 115980 X ATEX marking: Motherboard MB-FB-GT.AD.FF: Ⓔx II 3G Ex ec IIC T4 Gc Motherboard MB-FB-GT.AD.FF.IO: Ⓔx II 3G Ex nA nC IIC T4 Gc Gateway: Ⓔx II 3G Ex ec IIC T4 Gc
IECEx certificate: IECEx TUN 14.0003X IECEx marking: Motherboard MB-FB-GT.AD.FF: Ex ec IIC T4 Gc Motherboard MB-FB-GT.AD.FF.IO: Ex nA nC IIC T4 Gc Gateway: Ex ec IIC T4 Gc

Pepperl+Fuchs Group Lilienthalstraße 200, 68307 Mannheim, Germany
Internet: www.pepperl-fuchs.com

2. Target Group, Personnel

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

The personnel must be appropriately trained and qualified in order to carry out mounting, installation, commissioning, operation, maintenance, and dismounting of the device. The trained and qualified personnel must have read and understood the instruction manual.

Prior to using the product make yourself familiar with it. Read the instruction manual carefully.

3. Reference to Further Documentation

Observe directives, standards, and national laws applicable to the intended use and the operating location.

Observe Directive 1999/92/EC in relation to hazardous areas.

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

For specific device information such as the year of construction, scan the QR code on the device. As an alternative, enter the serial number in the serial number search at www.pepperl-fuchs.com/device-information.

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.

4. Intended Use

The device is designed to analyze signals for monitoring and measuring specific system and field device values.

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

5. Improper Use

Protection of personnel and the plant is not ensured if the device is not 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.

The device is not suitable for isolating signals in power installations unless this is noted separately in the corresponding datasheet.

6. Specific Conditions of Use

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.

Do not connect or disconnect increased safety circuits when the circuits are energized and a potentially explosive atmosphere is present.

Place warning marking "Warning – Do not separate when energized!" visibly next to device.

The device must be installed and operated only in an environment of overvoltage category II (or better) according to IEC/EN 60664-1.

Provide a transient protection. Ensure that the peak value of the transient protection does not exceed 140 % of the rated voltage.

7. 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.

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

Do not mount a damaged or polluted device.

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.

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

Observe the tightening torque of the screws.

Protect the supply of the device against transient overvoltages.

Provide a transient protection. Ensure that the peak value of the transient protection does not exceed 140 % of the rated voltage.

Requirements for Cables and Connection Lines

Observe the permissible core cross section of the conductor.

Observe the insulation stripping length.

When using stranded conductors, crimp wire end ferrules on the conductor ends.

Requirements for Hazardous Area

If the device has already been operated in general electrical installations, the device may subsequently no longer be installed in electrical installations used in combination with hazardous areas.

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

The device may be installed in Zone 2.

Avoid electrostatic charges which could result in electrostatic discharges while installing, operating, or maintaining the device.

Do not connect or disconnect increased safety circuits when the circuits are energized and a potentially explosive atmosphere is present.

Place warning marking "Warning – Do not separate when energized!" visibly next to device.

8. Operation, Maintenance, Repair

Prior to using the product make yourself familiar with it. Read the instruction manual carefully.

Only use operating elements in the absence of a potentially explosive atmosphere.

Only plug and pull the energized module in the absence of a potentially explosive atmosphere.

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

Do not remove the warning marking "Warning – Do not separate when energized!".

Observe IEC/EN 60079-17 for maintenance and inspection of associated apparatus.

Do not connect or disconnect increased safety circuits when the circuits are energized and a potentially explosive atmosphere is present.

If there is a defect, always replace the device with an original device.

9. 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 must be considered, see datasheet.

The device, built-in components, packaging, and any batteries contained within must be disposed in compliance with the applicable laws and guidelines of the respective country.