

KT-MB-GT2AD*

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 Ⓜ II 3 G Ex nA IIC T4 Gc Motherboard MB-FB-GT.AD.FF.IO Ⓜ II 3 G Ex nA nC IIC T4 Gc, Gateway Ⓜ II 3 G Ex nA IIC T4 Gc
IECEX certificate: IECEX TUN 14.0003X IECEX marking: Motherboard MB-FB-GT.AD.FF Ex nA IIC T4 Gc Motherboard MB-FB-GT.AD.FF.IO Ex nA nC IIC T4 Gc Gateway Ex nA IIC T4 Gc
North America Certificates: FM20US0009X, FM20CA0005X Motherboard MB-FB-GT.AD.FF Class I, Division 2, Groups A-D, T4; Class I, Zone 2, AEx/Ex ec IIC T4 Gc Motherboard MB-FB-GT.AD.FF.IO Class I, Division 2, Groups A-D, T4; Class I, Zone 2, AEx/Ex ec nC IIC T4 Gc Gateway HD2-GT-2AD.FF.IO Class I, Division 2, Groups A-D, T4; Class I, Zone 2, AEx/Ex ec IIC T4 Gc -40 °C ≤ T _{amb} ≤ 60 °C
Pepperl+Fuchs Group Lilienthalstraße 200, 68307 Mannheim, Germany
Internet: www.pepperl-fuchs.com

2. Validity

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

3. Target Group, Personnel

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

The personnel must be appropriately trained and qualified in order to carry out mounting, installation, commissioning, operation, maintenance, and dismantling 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.

4. 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, 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.

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.

5. 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.

6. Improper Use

Protection of the 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.

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.

7.1. Requirements for Cables and Connection Lines

Observe the permissible core cross section of the conductor.

The insulation stripping length must be considered.

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

7.2. 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.

7.2.1. Gas

7.2.1.1. Zone 2

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.

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

7.3. Specific Conditions of Use

Additional Requirements for FM

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

- comply with the requirements for surrounding enclosures according to ANSI/UL 60079-07,
- are rated with the degree of protection IP54 according to ANSI/IEC 60529.

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.

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.

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.

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

Do not repair, modify, or manipulate the device.

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.