

Instruction Manual

1. Marking

Base Station IDM-Z2-*61-B-J2-BT-N0
Equipment protection level Gc ATEX certificate: IBExU 19 ATEX B016 X ATEX marking: Ⓜ II 3G Ex ic IIC T4 Gc IECEX certificate: IECEX IBE 19.0026X IECEX marking: Ex ic IIC T4 Gc
Equipment protection level Dc ATEX certificate: IBExU 19 ATEX B016 X ATEX marking: Ⓜ II 3D Ex ic IIIC T135°C Dc IECEX certificate: IECEX IBE 19.0026X IECEX marking: Ex ic IIIC T135°C Dc

The *-marked letters of the type code are placeholders for versions of the device.

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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.

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.

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The corresponding datasheets, manuals, declarations of conformity, EU-type examination certificates, certificates, and control drawings if applicable (see datasheet) are an integral part of this document. You can find this information under www.pepperl-fuchs.com.

Refer to the relevant certificate to see the relationship between the connected circuit type, the maximum permitted ambient temperature, the temperature class, and the effective inner reactances.

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

The base station is used for transmitting the data captured by the handheld reader (1-D barcodes or 2-D stacked codes) to the host. This data from the handheld reader is received wirelessly via Bluetooth.

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

Use the device only within the specified ambient and operating conditions. The device is an electrical apparatus for hazardous areas.

Take the intended use of the connected devices from the corresponding documentation.

Devices for which specific conditions of use apply have the X marking at the end of the certificate number.

6. Improper Use

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

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.

Only use accessories specified by the manufacturer.

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

When connecting intrinsically safe devices with intrinsically safe circuits of associated apparatus, observe the maximum peak values with regard to explosion protection (verification of intrinsic safety). Observe the standards IEC/EN 60079-14 or IEC/EN 60079-25.

The device may be installed in gas group IIC.

If circuits with type of protection Ex i are operated with non-intrinsically safe circuits, they must no longer be used as circuits with type of protection Ex i.

Keep the separation distances between all non-intrinsically safe circuits and intrinsically safe circuits according to IEC/EN 60079-14.

Observe the compliance of the separation distances between two adjacent intrinsically safe circuits according to IEC/EN 60079-14.

Observe the grounding requirements for type of protection Ex i according to IEC/EN 60079-14.

For intrinsically safe circuits, the dielectric strength of the insulation against other intrinsically safe circuits and against the shield must be at least 500 V according to IEC/EN 60079-14.

Equipotential bonding must be achieved along the intrinsically safe circuits.

Requirements for Cables and Connection Lines

Observe the maximum permissible length of cables and connection lines. Observe the permissible cable type and cable length given in the respective hazardous area certificate.

Regarding the verification of intrinsic safety, observe the maximum permissible external capacitance of this device and the other devices in the circuit.

The dielectric strength of the insulation must be at least 500 V according to IEC/EN 60079-14.

Observe the permissible core cross section of the conductor.

Do not use aluminum wire for connection of the device.

The insulation stripping length must be considered.

When installing the conductors the insulation must reach up to the terminal.

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

Observe the minimum bending radius of the conductors.

Install the cables and connection lines in such a way that they are protected from ultraviolet radiation.

Install cables and cable glands in a way that they are not exposed to mechanical hazards.

Requirements in Relation to Electrostatics

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

Avoid inadmissibly high electrostatic charge of the cables and connection lines.

An electrostatic charge poses an ignition hazard in case of discharge.

8. Operation, Maintenance, Repair

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

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

Do not repair, modify, or manipulate the device.

Do not use a damaged or polluted device.

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

If there is a defect, the device must be repaired by Pepperl+Fuchs.

If the device is installed in potentially explosive dust atmosphere, remove dust layers which exceed 5 mm in regular intervals.

Observe the warning markings.

Do not remove the warning markings.

Do not connect or disconnect the electrical connection when energized.

If cleaning is necessary while the device is located in a hazardous area, in order to avoid electrostatic charging only use a clean damp cloth.

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.