

Instruction Manual

Marking

WirelessHART® Temperature Converter WHA-UT-F7B1-0-PP-Z1-Ex2
Pepperl+Fuchs GmbH
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EC-Type Examination Certificate: IMQ 09 ATEX 008X Ex II 2(1)G Ex ia [ia] IIC T4

table 1

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 appropriate 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 (see datasheet) are an integral part of 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 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 must only be operated in the specified ambient temperature range and at the specified relative humidity without condensation.

The device is used in control and instrumentation technology (C&I technology) for wireless data transfer from HART devices.

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

Improper Use

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

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.

Do not mount the device at locations where an aggressive atmosphere may be present.

Do not mount a damaged or polluted device.

Only use accessories specified by the manufacturer.

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

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.

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

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

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.

The usage of 2400 MHz equipment is bound to local restrictions. Ensure that local restrictions allow usage of this device before commissioning.

Housing

To ensure the degree of protection:

- All seals must be undamaged and correctly fitted.
- All screws of the housing/housing cover must be tightened with the appropriate torque.
- Only cable of the appropriate size must be used in the cable glands.
- All cable glands must be tightened with the appropriate torque.
- All unused cable glands must be sealed or plugged with corresponding stopping plugs

Operation, Maintenance, Repair

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.

When the device is in operation, maintain at all times a distance of at least 20 cm to the device antenna. This also applies to any other person in the vicinity of the device.

The housing when energized may be opened for maintenance in Zone 1. Only use accessories specified by the manufacturer.

The device uses a battery unit containing non-rechargeable, high-power batteries. Please refer to the separate safety instructions for batteries before storing, handling, transporting and disposing of the batteries.

Leaking battery acid may cause personal injury and damage to the device.

- Never use batteries that are leaking.
- Never use batteries with external damages, even if no battery acid is leaking.
- Check the battery compartment for leaking battery acid at regular time intervals.

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.