


# Instruction Manual

## 1. Marking

AS-Interface Sensor/Actuator Module VAA-4E2A-G5-N/V2-Ex
ATEX certificate: DMT 02 ATEX E 125 ATEX marking:  II (1GD) 2G Ex e mb [ia] IIB/IIC T4

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## 2. 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.

## 3. Reference to Further Documentation

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

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](http://www.pepperl-fuchs.com).

You can find the data for electrical values and parameters in the corresponding datasheets.

## 4. 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.

Use the device only within the specified ambient and operating conditions.

The device is an electrical apparatus for hazardous areas.

The device is an associated apparatus according to IEC/EN 60079-11.

The device is used in control and instrumentation technology (C&I technology). The device is used for the galvanic isolation of intrinsically safe circuits and non-intrinsically safe circuits. The device is used as interface between modules, field circuits and control circuits.

The device is designed for wall mounting.

Only use the device stationary.

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

## 6. Mounting and Installation

Do not mount a damaged or polluted device.

Do not mount the device in the dust hazardous area.

Observe the ambient and operating conditions when mounting and installing the device.

The device fulfills a degree of protection IP54 according to IEC/EN 60529.

Ensure that the housing is not damaged, distorted, or corroded.

Ensure that all seals are clean, undamaged, and correctly fitted.

Tighten all screws of the housing/housing cover with the appropriate torque.

### 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.

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.

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.

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.

Only operate the device with a closed Ex e terminal compartment.

### Requirements for Cables and Connection Lines

Use only one connection line per opening.

For cable glands only use incoming cable diameters of the appropriate size.

Ensure that all cable glands are in good condition and are securely tightened.

Observe the tightening torque of the cable glands.

Close all unused cable glands with the appropriate sealing plugs.

Use only one conductor per terminal.

Observe the permissible core cross section of the conductor.

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

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

Ensure that unused terminal screws are properly tightened down.

Observe the tightening torque of the terminal screws.

## 7. Operation, Maintenance, Repair

The device is maintenance-free.

The devices must not be repaired, changed or manipulated. If there is a defect, the product must always be replaced with an original device.

Only operate the device with a closed Ex e terminal compartment.

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

The device may be operated in Zone 1.

## 8. 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.

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.

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