

Instruction Manual

1. Marking

HART Termination Board HiSHPSM/32/MM-01
ATEX certificate: CML 17 ATEX 3337X ATEX marking: Ⓜ II 3G Ex ec IIC T4 Gc
IECEx certificate: IECEx CML 17.0178X IECEx marking: Ex ec IIC T4 Gc
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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 directives, standards, and national laws 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 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.

Observe the instruction manuals for the associated termination boards.

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.

The device is used in the control and instrumentation technology (C&I technology). In combination with the HiDMux2700 HART multiplexer main device the device provides a HART connection to analog field devices. The connection to conventional analog circuits is not affected. The device acts as a gateway between the field devices and the control side.

Only use the termination board with the designated modules.

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

Only use the device stationary.

The device is an electrical apparatus for hazardous areas of Zone 2.

5. Improper Use

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

6. Mounting and Installation

Do not mount a damaged or polluted device.

Do not mount the device in the dust hazardous area.

Mount the device in a way that the device is protected against mechanical hazard.

Supply the device with a power supply that meets the requirements for safety extra-low voltage (SELV) or protective extra-low voltage (PELV).

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.

If used in areas with higher pollution degree, the device needs to be protected accordingly.

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

Requirements for Cables and Connection Lines

Use conductors with a rated temperature suitable for the application.

Observe the permissible core cross section of the conductor.

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

Use only one conductor per terminal.

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

Observe the tightening torque of the terminal screws.

Requirements for Equipment Protection Level Gc

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

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.

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

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

7. Operation, Maintenance, Repair

The device must not be repaired, changed, or manipulated. In case of failure, always replace the device with an original device.

Requirements for Equipment Protection Level Gc

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

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

Only change the replaceable fuse in absence of a potentially explosive atmosphere or if the device is de-energized.

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.

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.