

Instruction Manual

1. Marking

HART Multiplexer Master HiDMux2700
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
CSA certificate: 1256050 Class I, Division 2, Groups A, B, C, D and non-explosion hazardous area
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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 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.

If you use the device in safety-related applications, observe the requirements for functional safety. You can find these requirements in the functional safety documentation under 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). The device provides a HART connection to analog field devices without influencing the conventional analog circuits. The device acts as a gateway between the field devices and the control side.

Only use the module with the designated termination boards.

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.

The device is an electrical apparatus for hazardous areas of Class I, Division 2 or Class I, Zone 2.

If you use the device in safety-related applications, observe the information for safety function and safe state.

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.

The device fulfills a degree of protection IP20 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.

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.

If you install the device in safety-related applications, observe the requirements for functional safety.

Requirements for Equipment Protection Level Gc

Only use the module in the hazardous area if the termination boards are also approved for the hazardous area.

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.

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

Requirements for Division 2

Only use the module in the hazardous area if the termination boards are also approved for the hazardous area.

Observe the instructions according to NEC article 501.

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

7. Operation, Maintenance, Repair

If you operate the device in safety-related applications, observe the requirements for functional safety. In case of operating in low demand mode, plan appropriate intervals for the proof test.

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.

Only use operating elements in the absence of a potentially explosive atmosphere.

Requirements for Division 2

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

Only use operating elements in the absence of a potentially explosive atmosphere.

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.