

Instruction Manual

1. Marking

PS3500 series power supply for Zone 2 and Zone 22

Power supply module: PS3500-PM-1.24.15
Diagnostic module: PS3500-DM
Backplane: PS3500-TB-*

ATEX, IECEx, CCC approval:
See the nameplate on the device side or lid for the exact designation.

For certification details refer to the device nameplate.
The *-marked letters of the type code are placeholders for versions of the device.

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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.
Observe the instructions according to NEC article 501.
For more information see the manufacturer declaration.
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.

4. Intended Use

Observe the instruction manual and the certificate of the installed apparatus.
Devices for which specific conditions of use apply have the X marking at the end of the certificate number.
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 must only be operated at the specified relative humidity without condensation.

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

Prior to mounting, installation, and commissioning of the device you should make yourself familiar with the device and carefully read the instruction manual.
Observe the ambient and operating conditions when mounting and installing the device.
Do not mount a damaged or polluted device.
If you intend to install the device or enclosure in areas that may be exposed to aggressive substances, ensure that the stated surface materials are compatible with these substances. If required, contact Pepperl+Fuchs for further information.
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.

If you use the device in environments subject to adverse conditions, you must protect the device accordingly.

Requirements for Cables and Connection Lines

Observe the tightening torque of the terminal screws.
Ensure that unused terminal screws are properly tightened down.
Only use cables and connection lines with a temperature range appropriate to the application.
Observe the permissible core cross section of the conductor.
The insulation stripping length must be considered.

7. Device-Related Information

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.
Safety-relevant markings are found on the nameplate supplied. Ensure that the nameplate is present and legible. Take the ambient conditions into account.

8. Non-Hazardous Area

The device may be installed in the non-hazardous area.

9. Hazardous Area

Observe the installation instructions according to IEC/EN 60079-14.
Observe the installation instructions according to IEC/EN 60079-25.
Avoid impact effect or friction during mounting.

9.1. Gas

The device may be installed in gas groups IIC, IIB, and IIA.

9.2. Zone 2

The device may be installed in Zone 2.

The device may only be installed and operated in Zone 2 if it has been mounted in a surrounding enclosure with degree of protection IP54 according to IEC/EN 60529. The surrounding enclosure must correspond to equipment protection level Gc.
The intrinsically safe output circuits may lead into Zone 2.
Connection or disconnection of energized circuits is only permitted in the absence of a potentially explosive atmosphere.

9.3. 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.

10. Operation, Maintenance, Repair

Prior to using the product make yourself familiar with it. Read the instruction manual carefully.
Do not remove the nameplate.
Observe the warning markings.
Do not use a damaged or polluted device.
Do not connect or disconnect the electrical connection when energized.
Do not exceed the maximum permitted output current. Prevent short circuits.
Observe IEC/EN 60079-17 for maintenance and inspection.
If the voltage is greater than 50 V AC or 120 V DC, switch off the voltage before connecting or disconnecting the device.
If there is a defect, the device must be repaired by Pepperl+Fuchs.
If there is a defect, always send back the device to Pepperl+Fuchs.
Remove all adhering residues from the device. These residues can be hazardous to health.
Fill in the form **Declaration of Contamination**. You can find this form on the product detail page at www.pepperl-fuchs.com.

11. 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.
Store the device in a clean and dry environment. The permitted ambient conditions must be considered, see datasheet.