

Instruction Manual

1. Marking

VisuNet FLX – System with Enclosure
Remote Monitor RM-320S-N*
Personal Computer PC-320S-N*
Direct Monitor DM-320S-N*

VisuNet FLX – Panel Mount
Remote Monitor RM-320P-N*
Personal Computer PC-320P-N*
Direct Monitor DM-320P-N*

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.

3. Reference to Further Documentation

Specific processes and instructions in this instruction manual require special provisions to guarantee the safety of the operating personnel.

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 (see datasheet) are an integral part of this document. You can find this information under www.pepperl-fuchs.com.

Observe the instruction manuals for the associated components.

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/device-information.

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

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 VisuNet FLX Systems are designed for non-Ex applications. The different mounting and configuring options lead to the highest application flexibility. Due to a fully modular design, the new platform, which is geared to the needs of the (petro-) chemical and pharmaceutical industries, the HMI's can be configured to fit exactly and enables simple and fast adjustments in the field.

VisuNet FLX panels consist of a display unit with touch screen in combination with a computing unit. Various display sizes (21.5 inch, 19 inch and 15.6 inch) and configurable computer units lead to highest application flexibility.

The device must only be operated in the specified ambient temperature range and at the specified relative humidity without condensation.

The device is designed for a maximum altitude of 2000 m.

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

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

5. Improper Use

Protection of 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.

Do not stay below the open device. In order to avoid personal injuries or property damage, take appropriate measures for the mounting and maintenance procedures.

Use mounting materials which are suitable to secure the device safely.

Use mounting materials that fit the nature of the mounting surface.

Only use accessories specified by the manufacturer.

Mount the device in a weatherproof location.

Ensure that the operating location has a sufficient floor load capacity.

The device is heavy. In order to avoid personal injuries or property damage, take appropriate measures for the mounting procedure.

If mounting the enclosure on concrete use expansion anchors.

When mounting the enclosure to a steel framework use vibration resistant mounting material.

Ensure that all fasteners are present.

Observe the tightening torque of the screws.

Protect the device against long-term or excessive mechanical vibrations.

Secure the connections of the device against loosening by suitable means.

Mount the device in such a way that it is protected from ultraviolet radiation.

Mount the device in such a way that it is protected from direct sunlight, unless it is equipped with UV protection.

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

Do not damage the breather drain.

Do not cover the breather drain.

Ensure that the terminals are in good condition and are not damaged or corroded.

Provide a transient protection. Ensure that the peak value of the transient protection does not exceed 140 % of the rated voltage.

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.

Only connect safety extra-low voltage circuits (SELV) or protective extra-low voltage circuits (PELV) to the device.

Only connect supplies that provide protection against electric shock (e. g. SELV or PELV).

Protect the circuit against overvoltage (e. g., lightning).

Requirements for Cables and Connection Lines

Observe the maximum permissible length of cables and connection lines.

Observe the permissible core cross section of the conductor.

Observe the insulation stripping length.

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

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

Observe the minimum bending radius of the conductors.

Unused cables and connection lines must be either connected to terminals or securely tied down and isolated.

Install the cables and connection lines in such a way that they are protected from ultraviolet radiation.

Install cables and cable glands in a way that they are not exposed to mechanical hazards.

Requirements for Cable Glands

Only use cables and connection lines with a temperature range appropriate to the application.

Use only one connection line per opening.

Use only one conductor per terminal.

Adjust the sealing element of the cable gland to the diameter of the cables and connection lines used.

Tighten all cable glands with the appropriate torque.

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

Close all unused cable glands with the appropriate sealing plugs.

Requirements for Surrounding Enclosures

Mount the surrounding enclosure in a way that all housing outlets, e. g., cable glands and breather drains face downwards.

When the enclosure cover is fitted, ensure that all fasteners are fully tightened.

Mount the device so that it complies with the specified degree of protection according to IEC/EN 60529.

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

Ensure that the surrounding enclosure is not damaged, distorted, or corroded.

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

Tighten all screws of the surrounding enclosure/surrounding enclosure cover with the appropriate torque.

Close all unused enclosure holes with the appropriate stopping plugs.

For DC Supply

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

For AC Supply

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

7. Operation, Maintenance, Repair

Prior to using the product make yourself familiar with it. Read the instruction manual carefully.

Do not stay below the open device. In order to avoid personal injuries or property damage, take appropriate measures for the mounting and maintenance procedures.

Do not use a damaged or polluted device.

If there is a defect, the device must be repaired by Pepperl+Fuchs.

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

Observe the warning markings.

Do not remove the warning markings.

Avoid mechanical impacts to the device (e. g. from heavy or sharp-edged objects).

The device can get very hot during operation. To protect the device from excessive heating, observe the required clearances and sufficient ventilation when installing the device.

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.

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 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.