Modular Lightweight.

VisuNet GXP–
up to Zone 1/21 applications

Tailored to meet the high demands
of the life science industry.

Your automation, our passion.

PEPPERL+FUCHS

Compact, Modular, and Easy to Maintain— The Modular Thin Client for Hazardous Areas

The VisuNet GXP remote monitor from Pepperl+Fuchs brings innovative features to hazardous areas with a compact, modular design that allows for easy setup and maintenance. But the VisuNet GXP is much more: it is also a pioneer for human-machine interfaces that makes optimal use of the opportunities that Industry 4.0 has to offer.

Compact, Modular Design for Field Maintainability

A key advantage of the VisuNet GXP is its modular design. The three main components: display, power supply, and computer. The computer is available either as thin-client or as PC technology: The thin-client version is a closed system that comes with the RM Shell firmware. It enables remote access to remote computers. Image transmission is operated via network technology. The PC version offers an open Windows operating system on which customers can install their own applications.

The VisuNet GXP's modularity allows quick and simple assembly and replacement of key components in the field. The display unit in two sizes, the computing unit, and the power supply unit are easy to install or to replace.

This simplifies maintenance and increases the availability of the HMI system and production process, making the VisuNet GXP future-proof and durable.

Optimized for the Life Science Sector

The VisuNet GXP is specifically designed to meet the high demands of the life science industry and the strict requirements of Good Manufacturing Practices (GMP). With its stainless-steel housing, the thin-client solution is resistant to all industry-standard chemicals and cleaning agents. There are no gaps in which liquid, dirt, or bacteria can accumulate, and glass front displays support optimal cleaning.

For more information, visit
pepperl-fuchs.com/pf-VisuNet-GXP

Designed for Zone 1/21, Zone 2/22, and Class I, II, Division 2

Display Unit—Extra Large and Touch-Optimized

The 21.5-inch full-HD display in 16:9 widescreen format allows process control software to be displayed in its native resolution. To minimize reflections and improve image quality, the screen is optically bonded. Behind the extremely durable, scratch-resistant safety glass is a capacitive multitouch sensor that provides touch-optimized user interfaces similar to smartphones or tablets. The ten-point multitouch screen has been optimized for use with gloves, and the seamless glass front display ensures that the monitor can withstand the cleaning requirements of the life science industry.

19-Inch Display—Compact and Compatible

In addition to the 21.5-inch screen diagonal, Pepperl+Fuchs also offers a compact 19-inch version. The display unit in 5:4 format features a space-saving design.

PC Unit—Innovative Solution

With the 2020 generation of the VisuNet GXP, the computing units are now equipped with powerful Intel® Apollo Lake processors. The VisuNet GXP PC versions are based on a Microsoft® Windows® operating system. This allows users to add custom software packages such as SCADA to visualize applications in hazardous areas. A variety of serial interface options, including RS-232, RS-485, and Ethernet, enable direct communication with the control panel from the hazardous area.

Interfaces—Large Selection, Optimal Communication

In addition to the RS-232 and RS-485 interfaces, a redundant Ethernet option is also available. It allows the setup of redundant network structures and sustainably increases the availability of the monitors. The real highlight are the fiber-optic interfaces for singlemode or multimode, which are certified according to the latest optical intrinsic safety standards. They allow the monitor to be connected to a standard fiber-optic switch that only has to meet the requirements of laser class 1. Ex op approval is no longer required, resulting in a significant reduction in infrastructure costs.

Flush Mount—Flexible, Space-Saving Mounting

- The VisuNet GXP is the perfect solution for OEMs.
- The remote monitor can be installed directly in the machine or in switch cabinet doors.
- The flush, gap-free installation ensures that the surface can be cleaned according to the required guidelines.

Power Supply—Powerful and Extremely Flexible

The power supply is one of the key features of the modular VisuNet GXP. This high-performance unit provides additional flexibility with AC and DC options for a variety of application requirements. The adaptable power supply is suitable for wall mounting, but can also be installed directly in the housing or on the computing unit.
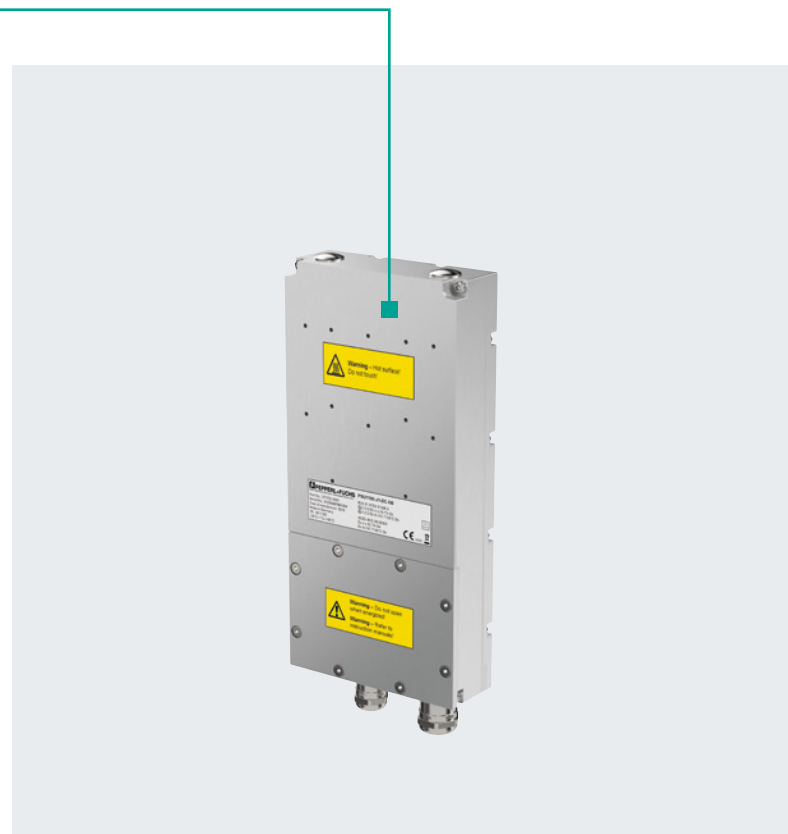
VisuNet RM Shell 5—Next-Generation Firmware

Each VisuNet GXP Remote Monitor is equipped with RM Shell 5, the latest generation of firmware for our thin-client solutions. Security, reliability, and user-friendliness were the focus in its development. The latest update features a modern Windows® 10 IoT operating system and supports all common remote protocols, including Microsoft® RDP10, VNC and NetC@P. This makes the RMs fully compatible with both virtualized and traditional workstation-based process control systems.

VisuNet Control Center—Uniquely Efficient

With the RM Shell 5, Pepperl+Fuchs offers an even wider range of innovative functions. A special feature of the current version is the VisuNet Control Center. This additional software makes it possible for the first time to manage smart RMs remotely. Setting up and managing devices in hazardous areas is now easier than ever. The firmware is configured, maintained, monitored, supported, and updated from a central workspace via convenient remote access. Engineers no longer need to enter hazardous areas or clean rooms. Intuitive software design and a focus on features relevant to the process industry simplify operation. All this saves time and reduces costs.

Lightweight—Easy to Install

Unlike other Zone 1/21 solutions that are bulky and heavy, the GXP is the lightest in the industry—less than 25 kg. This enables easier installation in a variety of applications without the need for a costly, heavy pedestal. This means it can be installed by only one person, allowing for faster and more economical commissioning.

Harnessing the Possibilities of Industry 4.0

The VisuNet GXP with Shell 5 and the innovative Control Center are examples of what is possible with the Internet of Things: The thin-client solution enables access to process control systems or the MES via Ethernet, ensuring reliable control and monitoring of the automation plant.

- The RMs can also access the integrated web browser for commissioning, configuration, or maintenance.

- The smart human-machine interface system is therefore the perfect solution for the process industry to take advantage of Industry 4.0.

Modular design:
quick and easy assembly and disassembly of the computer, display, and power supply in the field

Easy cleaning:
tailored to meet GMP requirements in hazardous areas; particularly beneficial for pharmaceutical and fine chemical applications

Innovative firmware:
combined with RM Shell 5 in a cost-effective thin-client solution for the life science industry

Absolute lightest:
innovative design brings the world's lightest RM into Zone 1/21 life science applications
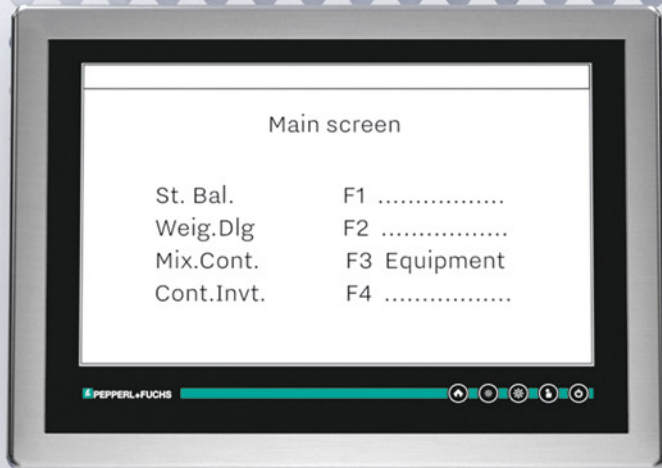
Unique display:
full HD, 16:9, optically bonded, ten-point, multitouch display enhances image quality, safety, and user-friendliness

Smart solution:
harnesses the power of Industry 4.0 for the process industry in Zone 1/21

Main screen

St. Bal.	F1	....
Weig.Dlg	F2	....
Mix.Cont.	F3	Equipment
Cont.Invt.	F4	....

Zone 1

Your automation, our passion.

Explosion Protection

- Intrinsic Safety Barriers
- Signal Conditioners
- FieldConnex® Fieldbus Infrastructure
- Remote I/O Systems
- Electrical Explosion Protection Equipment
- Purge and Pressurization Systems
- HMI Systems
- Mobile Computing and Communications
- HART Interface Solutions
- Surge Protection
- Wireless Solutions
- Level Measurement

Industrial Sensors

- Proximity Sensors
- Photoelectric Sensors
- Industrial Vision
- Ultrasonic Sensors
- Rotary Encoders
- Positioning Systems
- Inclination and Acceleration Sensors
- Vibration Monitoring
- Industrial Ethernet
- AS-Interface
- IO-Link
- Identification Systems
- Displays and Signal Processing
- Connectivity

Pepperl+Fuchs Quality
Download our latest policy here:

www.pepperl-fuchs.com/quality

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