Enabling flexibility. Eliminating complexity. Delivering unrivaled performance.

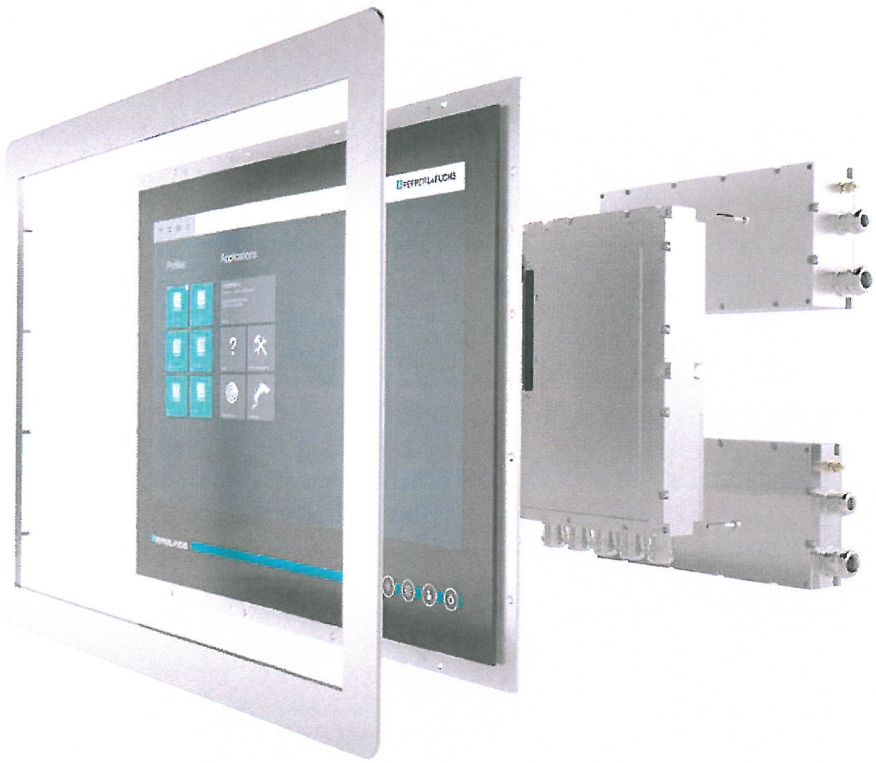
VisuNet GXP for Life Science Applications in Zone 1/21

Your automation, our passion.

PEPPERL+FUCHS

Designed for the Life Science Industry: The New Thin Client Generation for Hazardous Areas

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

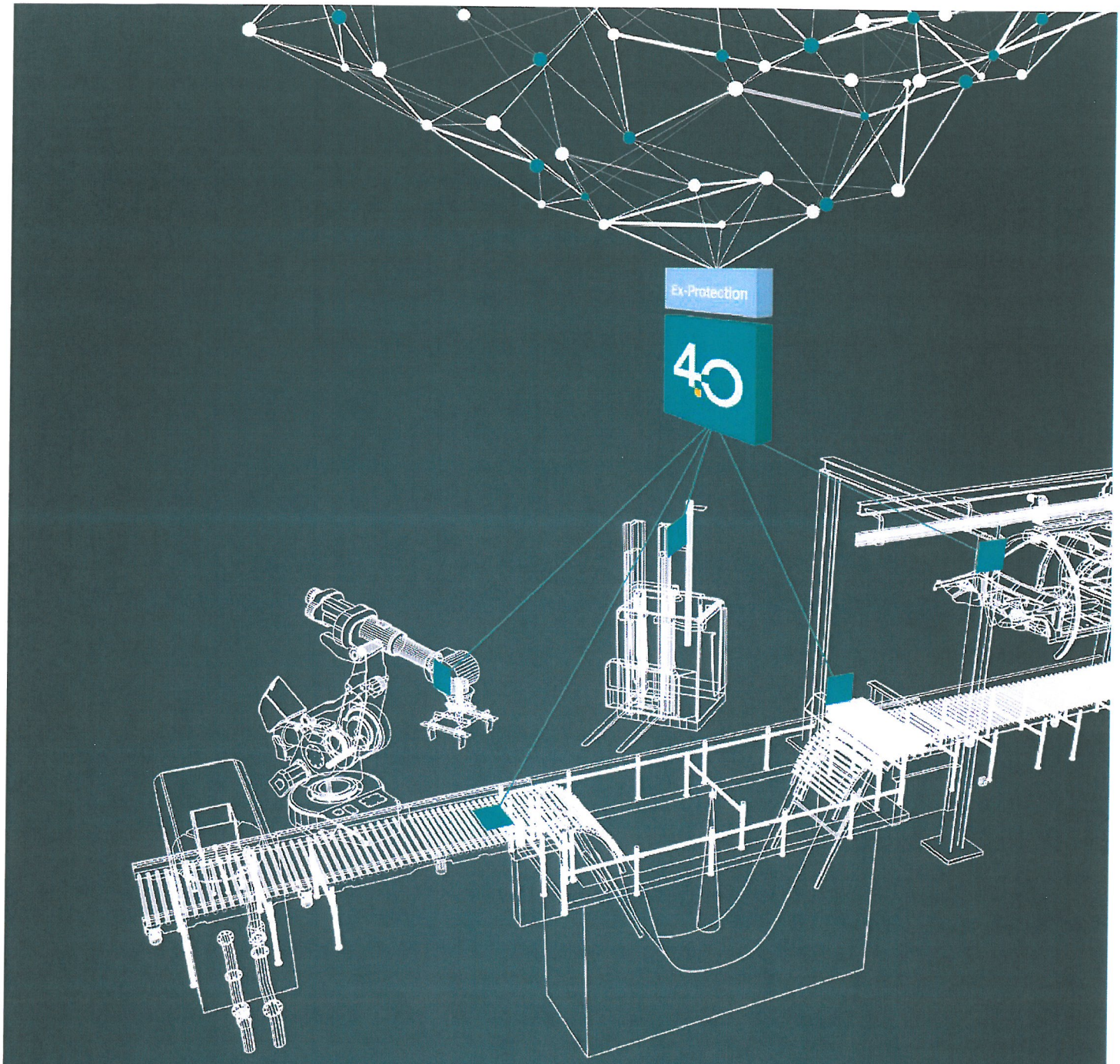


Compact, Modular Design for Field Maintainability

A key advantage of the VisuNet GXP is its modular design. The three main components – the display, computer, and power supply – are easy to disassemble on-site and allow operators to replace components independently in the event of a fault. This makes field maintenance easy and reduces costs associated with downtime.

Optimized for the Life Science Sector

The new VisuNet GXP is tailored especially 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 chemicals and detergents commonly found in this sector. There are no gaps where liquid, dirt, or bacteria can accumulate, and a continuous glass front display supports optimal cleaning.



Industrie 4.0 – New Challenges, New Opportunities

At Pepperl+Fuchs, Industrie 4.0 is defined as a complete network of production systems. These systems are characterized by data exchange within the production process, but also with higher-level information systems beyond the company boundaries.

This networking of all automation components requires new technologies that enable direct horizontal and vertical access to the information of the production system – all the way down to field devices in explosion-hazardous areas. This means communication along the process chain, in higher-level information systems such as MES or ERP and, at the same time, direct access down to field level.

The new Pepperl+Fuchs VisuNet GXP with innovative RM Shell 4.1 lets you harness the power of Industrie 4.0. For the first time, the smart human-machine interface system enables communication within the production process and direct access to the sensor across all hierarchical levels, including in explosion-hazardous areas.

Display Unit – Extra-Large and Touch-Optimized

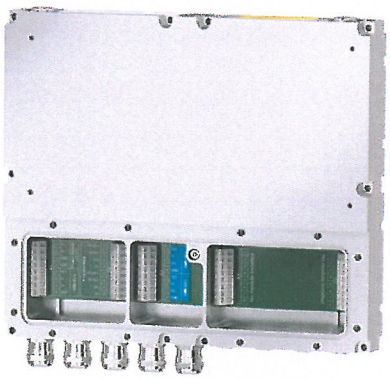
The GXP comes with a 21.5" Full HD, 16:9 monitor. No resizing is required in the field, and there are no distorted graphics. A capacitive multi-touch sensor is located behind the protective glass making it extremely durable and scratch resistant. The sensor also enables the use of touch-optimized user interfaces similar to smartphone and tablet interfaces. This means that important safety features can be integrated for critical processes. The screen is optically bonded for enhanced picture quality, a wide viewing angle, and improved durability. It is also glove-friendly; it easily recognizes input when users are wearing gloves. What's more, the seamless glass front display ensures that the monitor can withstand the cleaning requirements of the life science industry.

Power Supply – Powerful and Extremely Flexible

The power supply is one of the main features of the modular VisuNet GXP. This high-performance unit brings additional flexibility with AC and DC options for a wide range of application requirements. This adaptable power supply is suitable for wall mounting, and it can also be installed directly in the housing or mounted on the thin client unit (TCU).

Slim Housing, Perfect Design

The VisuNet GXP boasts a super-slim, space-saving housing and keyboard that are designed according to GMP directives and constructed to be mechanically robust in cleanroom and hygienic environments. Sleek and smooth, the housing prevents any accumulation of liquids, dirt or bacteria and resists high pressure and temperature, heavy washdowns, steam jets, and cleaning chemicals.

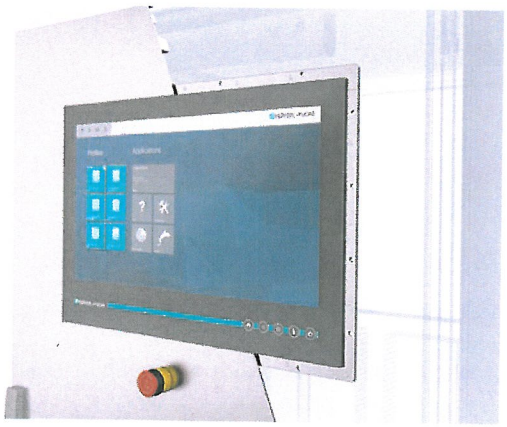


Flush Mount – Flexible, Space-Saving Mounting

The new 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.

Light weight – Easy to Install

Unlike other Zone 1/21 solutions that are bulky and heavy, the GXP is the lightest in the industry – under 25 kg. This enables easier mounting in different applications with no need for a costly, heavy-duty pedestal. This means it can be installed by only one person, allowing faster and economical commissioning.



VisuNet RM Shell 4.1 – Next Generation Firmware

Each VisuNet GXP Remote Monitor is equipped with RM Shell 4.1, the latest generation of firmware for our thin-client solutions. Security, reliability, and user-friendliness were the focus in its development. RM Shell 4.1 supports all common remote protocols, including Microsoft® RDP 8.1, VNC, NetC@P, and Citrix Receiver, making the VisuNet RMs fully compatible with both virtualized and conventional workstation-based process control systems.

A special feature of RM Shell 4.1 is the new VisuNet Control Center, which for the first time makes it possible to manage smart RMs remotely. Configuration, maintenance, monitoring, support, and updating the firmware is performed from a central workspace via convenient remote access. Engineers no longer have to enter hazardous areas or clean rooms, saving time and reducing costs.

VisuNet GXP – Harnessing the Possibilities of Industrie 4.0

The new VisuNet GXP with Shell 4.1 and the innovative Control Center are an example 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 remote monitors can also access the embedded web browser for commissioning, configuration or maintenance. The smart human-machine interface system is therefore the perfect solution for helping the process industry utilize the benefits of Industrie 4.0.

Highlights

- Modular design: quick and easy assembly and take down of the computer, display, and power supply in the field
- Absolute lightest: innovative design brings the world's lightest remote monitor into Zone 1/21 life science applications
- Easy cleaning: tailored to meet GMP requirements in hazardous areas; particularly beneficial for pharmaceutical and fine chemical applications
- Unique display: full HD, 16:9, optically bonded, 10-point, multi-touch display increases picture quality, safety, and user friendliness
- Innovative firmware: combined with RM Shell 4.1 in a cost-effective thin client solution for the life science industry
- Smart solution: harnesses the power of Industrie 4.0 for the process industry in Zone 1/21

Your automation, our passion.

Explosion Protection

- Intrinsically Safe Barriers
- Signal Conditioners
- Fieldbus Infrastructure
- Remote I/O Systems
- HART Interface Solutions
- Wireless Solutions
- Level Measurement
- Purge and Pressurization Systems
- Industrial Monitors and HMI Solutions
- Electrical Explosion Protection Equipment
- Solutions for Explosion Protection

Industrial Sensors

- Proximity Sensors
- Photoelectric Sensors
- Industrial Vision
- Ultrasonic Sensors
- Rotary Encoders
- Positioning Systems
- Inclination and Acceleration Sensors
- AS-Interface
- Identification Systems
- Logic Control Units
- Connectivity

PEPPERL+FUCHS

www.pepperl-fuchs.com
Subject to modifications · © Pepperl+Fuchs
Printed in Germany · Part. No. 286102 07/16 01