

**Rugged design.
Wide operating temperature.
Modular configuration.**

VisuNet IXD for harsh environments



Your automation, our passion.

 **PEPPERL+FUCHS**

Reliable Performance in Harsh Environments

The latest lightweight technology from Pepperl+Fuchs is robust and has a modular design. Whether the application requires a thin client or PC-based HMI, the VisuNet IXD is certified for Zone 1/21 and is optimized for outdoor applications that require an extremely rugged panel PC or thin client with a wide range of interfaces. The VisuNet RM Shell firmware and the user friendly software tool VisuNet Control Center offers optimized field maintainability.

Designed for Any Environment, Optimized for Outdoor Use

The housing of the IXD display unit is made of anodized aluminum and powder-coated. This makes the device safe for water and protects it against corrosion, even in harsh environments. The VisuNet IXD can operate in temperatures ranging from $-20\text{ }^{\circ}\text{C}$ up to $+60\text{ }^{\circ}\text{C}$. The lightweight technology is globally certified for hazardous locations (IECEX/ATEX Zone 1/21). Intended for use in outdoor applications, the VisuNet IXD has a high-brightness display and an optically bonded touch screen that reduces reflections, increases

light transmission, and enables improved picture quality for optimal viewing in high ambient light. An optional sunshield protects from direct sun and can also be used as mechanical protection during non-operation or transportation.





19-Inch Capacitive Multi-Touch Display— Compact and Compatible

The 19-inch, sunlight-readable high-bright display (1000 cd/m²) with high-quality LED backlight technology uses high-efficiency, long-life 70,000 hour LEDs and provides high bright LCD with very low power dissipation. The screen is optically bonded to minimize reflection and enhance picture quality and contrast.

Behind extremely durable, scratch-resistant safety glass, the capacitive multi-touch sensor enables the use of touch-optimized user interfaces similar to smartphones or tablets. The adjustable sensitivity of the multi-touch screen has been optimized for use with all types of gloves and can even detect and withstand false inputs (e.g., from rain drops or during wash downs). Furthermore, the touchscreen can be disabled via the front buttons.

Compact, Modular Design for Field Maintainability

A key advantage of the VisuNet IXD is its modular design. It consists of a display, power supply, and computer and enables operators to replace components independently in the event of a failure. This makes field maintenance easy and reduces costs associated with downtime.

The computing unit is available either as thin client or as a Windows® PC platform. The thin client version is a closed system that comes with the RM Shell 5 firmware, which enables remote access and configuration from around the world. The PC version offers an open Windows operating system where customers can install their own applications.

Lightweight and Easy to Install with a Variety of Mounting Options

Unlike other Zone 1/21 solutions that are bulky and heavy, the VisuNet IXD is the lightest in the industry, weighing in at approximately 23 kg. This enables easier mounting in different applications with no need for a costly, heavy-duty pedestal. A variety of mounting options designed for different applications are available. Wall brackets and yoke, pedestal, VESA, and panel mounting ease the installation and increase installation flexibility.



VisuNet IXD— Harnessing the Possibilities of Industry 4.0

The new VisuNet IXD with RM Shell 5 firmware 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 and the MES via Ethernet, ensuring reliable control and monitoring of the automation plant. The VisuNet Remote Monitors can also access the embedded Web browser for commissioning, configuration, and maintenance. The smart human-machine interface system is therefore the perfect solution for helping the process industry utilize the benefits of Industry 4.0.

Highlights

- Adjustable high-bright, multi-touch display, designed for any environment
- A wide range of operating temperatures (-20 °C to +60 °C)
- A modular, lightweight design allows field maintainability and makes installation easy and flexible
- A variety of mounting options and suitable accessories are available
- Globally certified for hazardous areas (IECEx/ATEX Zone 1/21)

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Compact and modular

- Lightweight and easy to install
- Optional sunshield available
- Easy field maintenance

VisuNet RM Shell 5

- Based on Windows® 10 IoT operating system
- Integrated security mechanisms
- VisuNet Control Center software

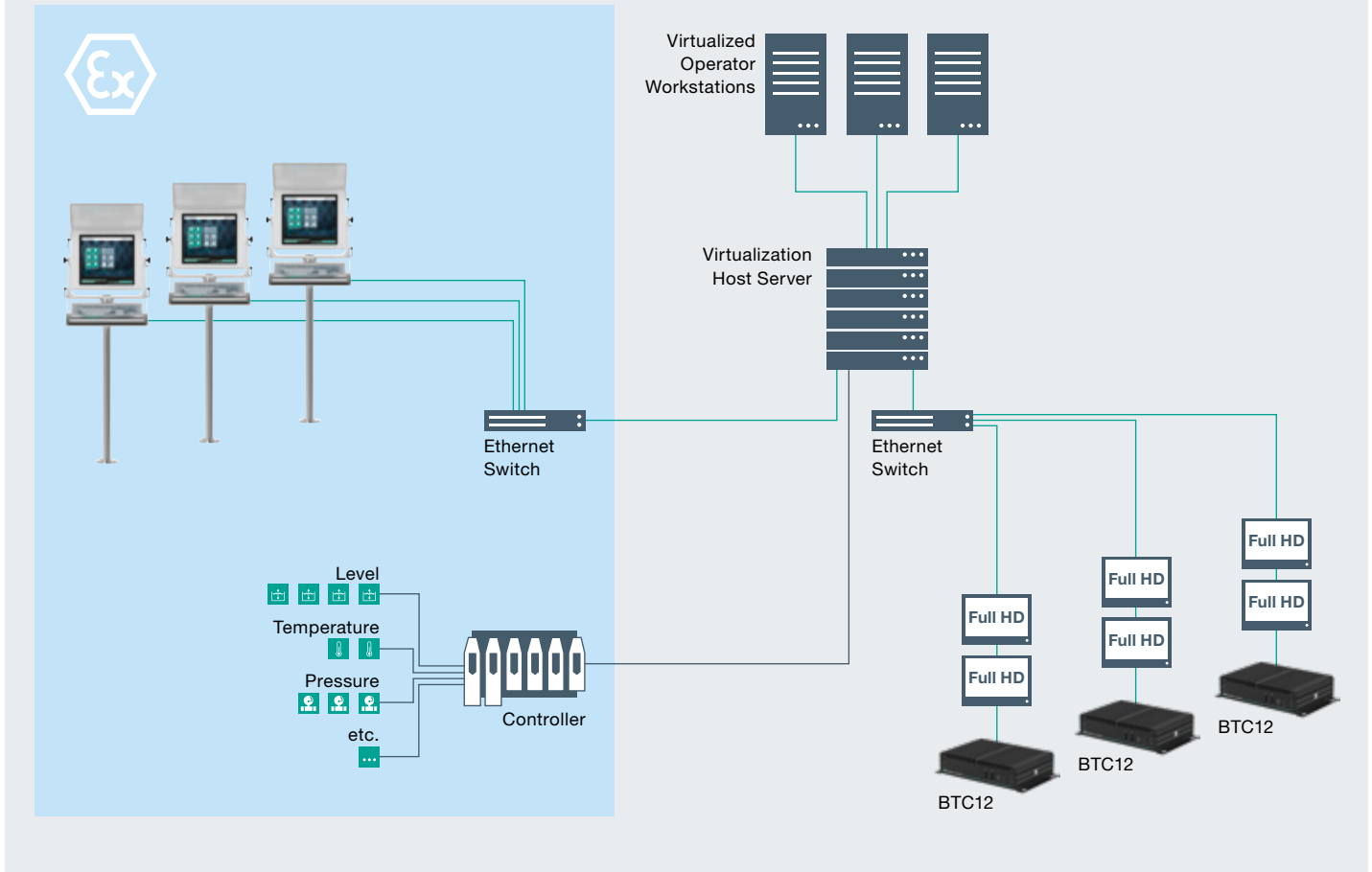
Rugged design

- Display unit is made out of anodized aluminum and powder-coated
- Adjustable 19-Inch high-bright, multi-touch display
- Operating temperature from -20 °C up to +60 °C

Variety of Mounting Options

Wall brackets, yoke, pedestal, VESA, and panel mounting





New Interfaces—Large Selection, Optimal Communication

With the PC version of the VisuNet IxD, Pepperl+Fuchs has added a computing unit to its modular HMI system. The solution offers an Intel® quad-core processor and an open Microsoft® Windows® operating system. This allows users to install individual software packages such as SCADA to visualize applications in hazardous areas. In addition to the new RS-232 and RS-485 interfaces, a redundant Ethernet option for high communication reliability is also available. It allows redundant network structures to be set up and sustainably increases the availability of the monitors. The true highlight is the fiber-optic interface, which is certified according to the latest optical intrinsic safety standards. It allows the monitor to be connected to a standard fiber-optic switch that only has to meet the requirements of laser class 1. Inherently safe optical radiation approval is no longer necessary, which means a considerable reduction in infrastructure costs.



For more information visit:
www.pepperl-fuchs.com/ixd



Power Supply—Powerful and Extremely Flexible

The power supply is one of the main features of the modular VisuNet IXD. This high-performance unit brings additional flexibility and cost savings with AC and DC options for a wide range of applications. This adaptable power supply is suitable for wall mounting and can also be installed directly in the housing or mounted on the thin client unit.

VisuNet RM Shell 5—Next Generation Firmware

Each VisuNet IXD Remote Monitor is equipped with VisuNet 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, NetC@P, and Citrix Receiver. This makes the VisuNet Remote Monitors fully compatible with both virtualized and conventional workstation-based process control systems.

VisuNet Control Center—Uniquely Efficient

With the new VisuNet RM Shell 5 firmware, Pepperl+Fuchs is offering an even wider range of innovative functions. A special feature of the current version is VisuNet Control Center. For the first time, this additional software makes it possible to manage smart remote monitors remotely. It is now easier than ever to set up and manage devices in hazardous areas. The firmware is configured, maintained, monitored, supported, and updated from a central workspace via convenient remote access. Engineers no longer have to enter hazardous areas or clean rooms. Intuitive software design and a focus on functions that are relevant to the process industry make systems easier to operate. All this saves time and reduces costs.



Industry 4.0—New Challenges, New Opportunities

At Pepperl+Fuchs, Industry 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 IXD with innovative RM Shell 5 lets you harness the power of Industry 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.



For more information on Industry 4.0, visit:
www.pepperl-fuchs.com/IIoT-for-PA

Your automation, our passion.

Explosion Protection

- Intrinsic Safety Barriers
- Signal Conditioners
- FieldConnex® Fieldbus
- Remote I/O Systems
- Electrical Ex Equipment
- Purge and Pressurization
- Industrial HMI
- 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
- Fieldbus Modules
- AS-Interface
- Identification Systems
- Displays and Signal Processing
- Connectivity

Pepperl+Fuchs Quality

Download our latest policy here:

www.pepperl-fuchs.com/quality

