

PROCESS AUTOMATION

VISUNET IND

CONNECTING THE CONTROL ROOM & PLANT FLOOR



PF PEPPERL+FUCHS
PROTECTING YOUR PROCESS

TECHNOLOGIES THAT FIT YOUR APPLICATION

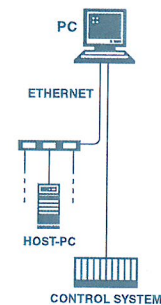
COMMUNICATION

Depending on your facility and networking requirements, you can select a communication technology from our family of industrial solutions so each workstation is a perfect fit for your HMI visualization infrastructure. Three communication technologies are available depending on the functionality required.

PC Monitor with Integrated PC

- Network compatible or stand-alone
- Intel®Atom™ processor offers low power consumption and heat generation

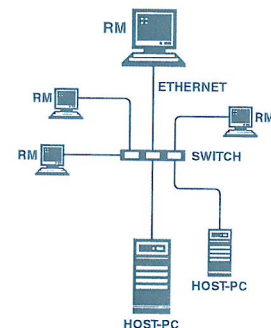
This is an industrial grade PC and monitor with full PC computing capabilities operating as a stand-alone solution. The VisuNet Panel PC utilizes standard Ethernet networking, USB, and serial connections. The high availability of the VisuNet IND is achieved by our rugged industrial design and the high-performing Intel Atom processor. Our fanless design increases system reliability and prevents premature failures from dust and corrosion. The Windows® XP Professional operating system allows users to install software for plant control and operates without external processing power.



RM Network Monitor

- Power-efficient Intel Atom processor provides excellent performance
- Utilizes RDP, VNC, or ICA (Citrix) protocols over Ethernet
- Up to 8 Remote Monitors may be connected to one remote server

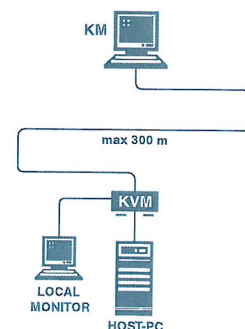
Remote Monitor (RM) is a network monitor with a dedicated thin client, utilizing standard Ethernet networking. RM workstations connect to a Windows session automatically and operate independently of other workstations in the network. The data transfer is digital, full duplex so EMI cable length restrictions are minimized. Long distances between the remote operator workstations can be achieved with fiber optic converters.



KM Monitor with KVM Extender

- Fiber optic or CAT5
- 300 m / 1000 ft distance between monitor and host PC

KVM monitors use a set of KVM extenders that consist of a transmitter and receiver unit that give you the ability to send keyboard, video, and touchscreen or mouse signals over long distances while still maintaining high-quality VGA or DVI video resolution. KVM extenders provide hardware safety and protection by allowing you to place servers in a single centralized location, far away from any environmental hazards.



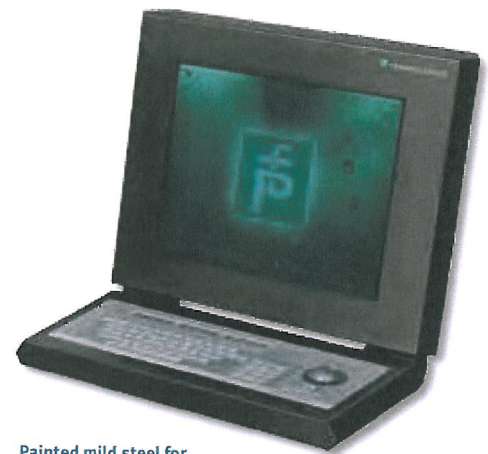
VISUNET IND EXTENDING THE CONTROL ROOM TO THE PLANT FLOOR

DESIGN IS THE DIFFERENCE

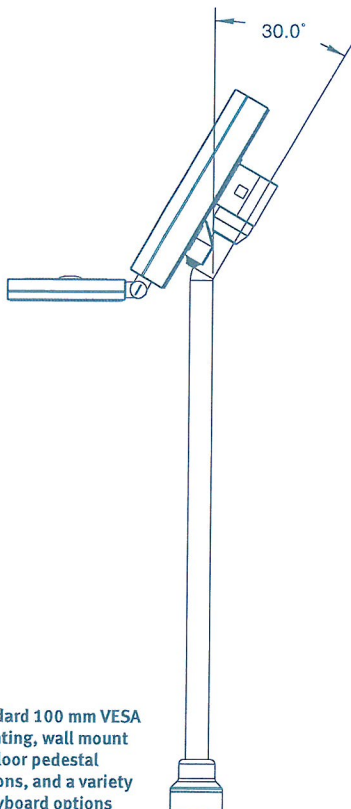
Pepperl+Fuchs provides components, systems, and solutions for the most complex problems in process technology. We are able to achieve this through technical expertise, market proximity, and development processes in which our customers play an active role.

Our workstations are designed with your needs in mind. VisuNet IND solutions are a key component in plant floor visualization systems. Each workstation is a single production floor interface that will manage recipes or monitor control variables or alarm systems. Each system has been engineered to endure the most stringent and unyielding environments.

To learn more visit www.pepperl-fuchs.us/industrial



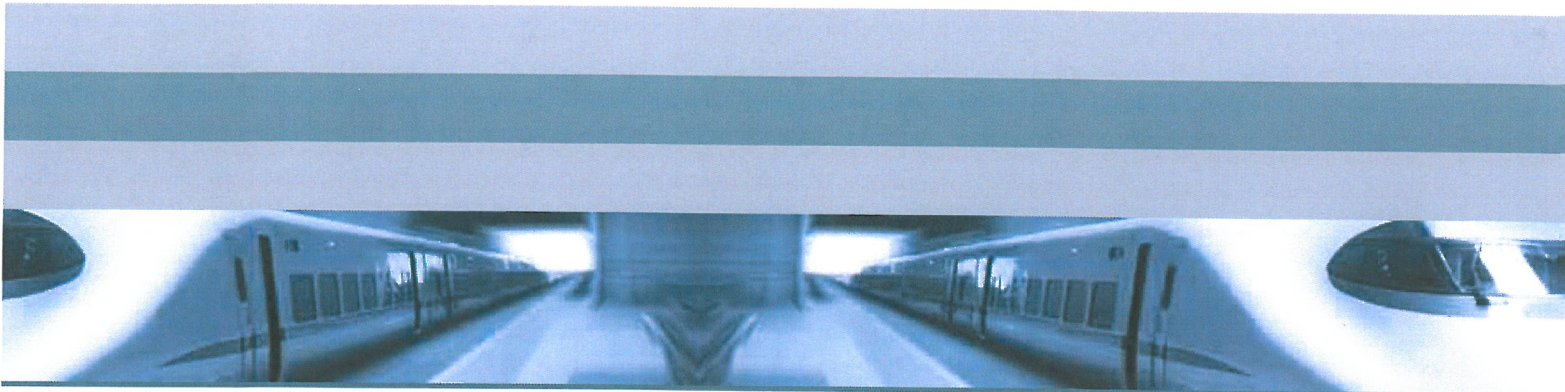
Painted mild steel for indoor or outdoor applications in noncorrosive environments



Standard 100 mm VESA mounting, wall mount and floor pedestal versions, and a variety of keyboard options



PC based process control supports greater processing speeds, flexibility and simplified integration

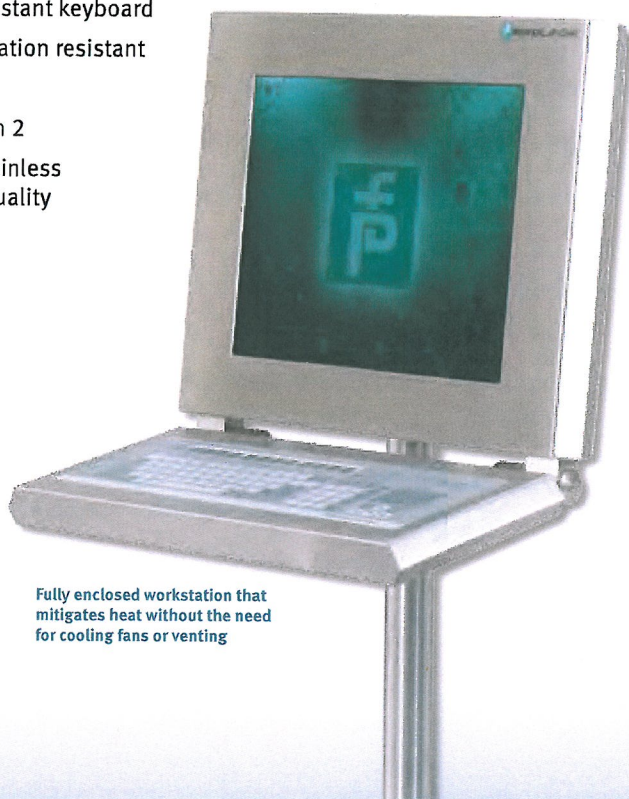


A WORKSTATION FOR EVERY APPLICATION

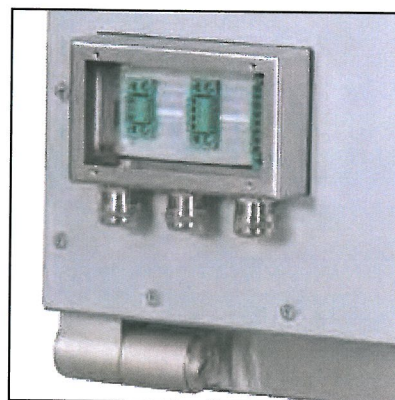
VisuNet IND is constructed with your process in mind. Each unit combines an industrial KVM, Remote Monitor (dedicated thin-client) or PC with a rugged industrial monitor and optional keyboard in a sleek and slim workstation. This workstation is a sealed enclosure without vents or fans. The angled surfaces are designed to prevent standing liquids after washdown or other cleaning operations.

Available in 316L stainless steel or painted mild steel, all connectivity is accomplished through a rear junction box. The unit has a variety of touchscreen options that include anti-glare, transfective, and hardened resistive (glass). Each compression-fit touchscreen features 5-wire resistive technology to ensure continuous use without the need for recalibration maintenance. VisuNet INDs are truly 24/7 units for operation in the harshest environments allowing reliable extension of the control room to the process floor.

- Continuously welded and polished seams
- Extended temperature range for indoor-outdoor use
- Angled surfaces help to prevent standing liquids
- Chemically resistant keyboard
- Shock and vibration resistant
- Type 4/4X
- Class I, Division 2
- #4, 180 grit stainless steel surface quality



Fully enclosed workstation that mitigates heat without the need for cooling fans or venting



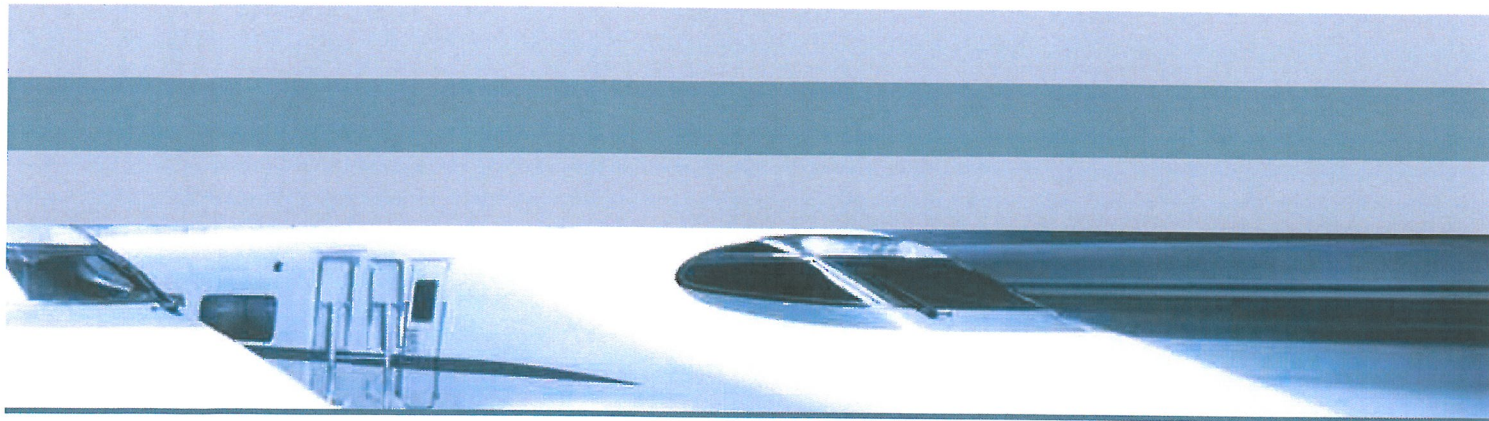
Connectivity through rear junction box



Slim housing and angled surfaces



Fully enclosed optical trackball suitable for washdown



SPECIFICATIONS

The VisuNet product family offers a wide range of models that includes different display sizes and types. We offer a variety of keyboard options including international characters and various pointing devices. You can also choose from a large number of mounting options, data transfer rates, and interface methods.

	RM	PC	KM
Display			
Screen Size	15.0" / 19.0"		
Display Resolution	1024 x 768 (XGA) / 1280 x 1024 (SXGA)		
Brightness	15": 500 nits / 19": 300 nits / 15": transfective 600 nits		
Viewing Angle	160° on all axes		
Contrast	15": 600:1 / 19": 900:1		
MTBF	500,000 hrs backlamp 50,000 hrs (typical)		
Input Devices			
Touchscreen (optional)	5-wire resistive touch, 5-wire hardened resistive touch		
PC System			
Processor	1.6 GHz Atom, N270	1.6 GHz Atom	KVM, VGA, DVI copper or fiber optic
RAM	1 GB RAM DDR2	2 GB RAM DDR2	none
Hard Disk	512 MB (CF)	80 GB solid-state	none
Interfaces	1 x GB Ethernet, 1 x USB, 1 x serial	1 x GB Ethernet, 2 x USB, 1 x serial	2 x USB or 2 x PS2 1 x serial, audio
Environmental/Electrical			
Ambient / Storage Temperature	-20 to 50 °C / -20 to 60 °C		
Humidity	0 to 90% non-condensing		
Vibration	5 to 100 Hz, 1 g 12 m/s² all axes		
Shock	30g, 6 ms, all axes		
Supply Voltage	24 VDC, 100-240 VAC, 50-60 Hz		
Power Consumption	48 W (max)		
Weights and Dimensions			
Dimensions	18.8" x 15" x 3.4" (main unit), junction box adds 1.7" to depth, 22" x 10" x 2" (keyboard housing) 478 x 381 x 86 mm (main unit), junction box adds 43 mm to depth, 559 x 254 x 51 mm (keyboard housing)		
Weight	30 lbs (no keyboard), 42 lbs (with keyboard)		
Degree of Protection	Type 4 (stainless steel) or 4X (painted mild steel)		
Mounting	100 mm VESA mount. Wall mount & floor pedestal versions available, separately		
Certifications			
North America	cETL _{US} , Class I, Div. 2, Groups A-D, T4		
Directive 89/336/EEC	EN55022A, EN6100-6-2, EN61000-3-2, EN61000-3-3		

PROCESS AUTOMATION – PROTECTING YOUR PROCESS



For over a half century, Pepperl+Fuchs has provided new concepts for the world of process automation. Our company sets standards in quality and innovative technology. We develop, produce and distribute electronic interface modules, Human-Machine Interfaces and hazardous location protection equipment on a global scale, meeting the most demanding needs of industry. Our worldwide presence, combined with flexible operating systems in our production and service organizations, enable us to offer complete individual solutions – wherever and whenever you need us. We are the recognized experts in our technologies – Pepperl+Fuchs has earned a strong reputation by supplying the world's largest process industry companies with the broadest line of proven components for a diverse range of applications.

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