

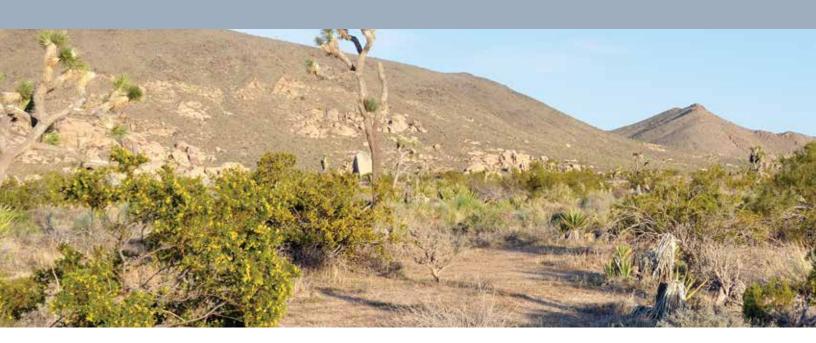
ENDURANCE TO WITHSTAND THE ENVIRONMENT

VISUNET PANEL MOUNT SOLUTIONS





PERFORMANCE IS THE DIFFERENCE



OUTPERFORMING THE CONDITIONS

When it comes to industrial HMIs, quality and performance are nonnegotiable! Harsh conditions in process facilities can be extremely problematic for control and monitoring equipment. Visualization systems are subject to moisture and extreme temperature shifts as well as solvents, chemicals, and pressure cleaning. For electrical components, an easy solution is to place only essential components in the field and use data lines to connect with the safe area. This separation minimizes exposure to harsh conditions and decreases susceptibility to faults.

Our industrial products are built to outperform your toughest conditions.

To learn more go to: www.visunet.com



VisuNet panel PCs and remote monitors are ready for 24/7 operation.



Every VisuNet monitor is built to outperform the toughest conditions.

YOUR BENEFITS

- Industrial-grade design and manufacturing for extreme environments
- Shock-absorbing gasket makes monitors and panel PCs resilient to shock and vibration
- Globally certified for Class I, II/Div.2 and ATEX Zone 2
- Extended temperature range, -20 °C to +50 °C for indoor/outdoor applications

SELECTABLE CONFIGURATIONS

An HMI workstation is a single interface for managing recipes and monitoring control variables and alarm systems. The ability to easily access this information from the plant floor saves time and can prevent process interruptions. Pepperl+Fuchs' VisuNet industrial monitors are a key component in plant floor visualization and are engineered to endure harsh, unyielding environments. Hot or cold, dirty, dusty, wet, caustic process surroundings are no match to the resilience of the VisuNet industrial design.

- Highest MTBF in the industry ≥ 550,000 hrs
- Sleek, all-in-one solution available, 10" to 22" widescreen
- Manufactured using only industrial-grade components
- Gold-plated connectors provide corrosion protection
- True industrial LCDs provide brighter screen, wider viewing cone, and true colors
- Shock-mount gasket ensures reliable operation
- Fanless design adds to reliability
- Compression fit touchscreen provides accurate touch without recalibration maintenance



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



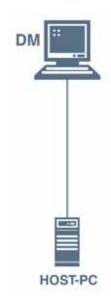
FLEXIBILITY: ONE FORM FACTOR FOR DM, KM, RM, AND PC



VISUNET MONITORS (DM500)

VisuNet DM industrial monitors are specifically designed to deliver reliable operation and long life in harsh application environments. Made with only industrial-grade components – no consumer-grade electronics – they are true industrialized monitors. VisuNet DM industrial monitors are fully configurable to suit specific application requirements, are listed and registered for North American use, and carry the CE mark. They are available for general-purpose or Class I/Div. 2, Zone 2 environments. Touchscreen and transflective options are available.

- Connects directly to the PC
- Use in hazardous and nonhazardous areas
- Antiglare and transflective options
- 12 VDC powered, externally powered for increased reliability
- Fully configurable to suit specific application requirements
- 10" to 22" widescreen format
- 10" to 19" (4:3) and 22" (16:10)



Properly engineered for continuous duty in general-purpose and Class I, Div. 2 and Zone 2 hazardous rated areas.



VISUNET PANEL MOUNT KVM MONITOR (KM8200)

The KVM extender consists of a receiver, which is embedded in the KVM monitor, and a transmitter that communicates with the host PC. Together they act as an electronic extension cord, sending keyboard, video, and mouse or touchscreen signals. They communicate over long distances while maintaining high-quality VGA or DVI video resolution. It uses a standard CAT5 cable or fiber-optic cable that can range up to 300 meters/1000 feet. This technology facilitates the use of standard control room PCs in a controlled environment and is commonly used to duplicate the HMI graphic in harsher industrial environments or to move a KVM monitor closer to the operating machinery. KVM monitors with KVM extenders are designed for use in areas where the host PC cannot be installed near the industrial monitor, such as in a portable drilling rig or cookers/steamers/processing equipment in the food industry.

- High-quality video and noise immunity over long distances
- Reduced space requirements in the hazardous area...only the monitor is located in the hazardous area
- Extend control room HMI with no additional licensing

M max 300 m KVM LOCAL MONITOR HOST-PC

KVM extenders provide hardware safety and protection by allowing you to place computers and servers in a centralized location far away from environmental hazards.

PRODUCT SPECIFICATIONS

Model Variant	VGA	DVI	CAT 5	FIBER	USB	PS2	AUDIO	SERIAL
КЗ		-		-	-			
K4	-			-		-		
K5	-		-			-		

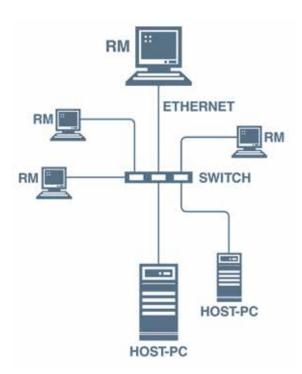
HIGH-PERFORMANCE VISUALIZATION HARDWARE



VISUNET PANEL MOUNT REMOTE MONITOR (RM8200)

VisuNet remote monitors are part of a virtualization strategy designed to communicate with host PCs or servers installed in remote locations using a standard Ethernet network. Using this technology there is virtually no limitation in the distance between the remote monitor and host PC. Multiple RM workstations can connect to a server or servers via independent Windows sessions on the same network. Data is digitally transmitted using Microsoft[®] RDP, Citrix ICA, or VNC protocol. This networked monitor strategy allows flexible administration of operator workstations, be it server upgrades or software revision management on the host side.

- Standard Ethernet networking connections to the server—no expensive converter
- Access multiple workstations from one server
- Supports Remote Desktop Service applications: Microsoft RDP, Citrix[®] ICA, and VNC
- Compressed video traffic—only changes in graphics are transmitted
- Dual Ethernet ports
- Patented technology
- Toggle between multiple sessions using a hot key
- Automatically re-establishes connection in the event it is lost



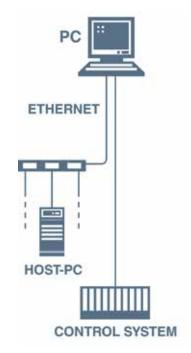
Our patented RM technology makes installation and managing terminals simple. Each RM automatically connects to its own session on the terminal server.



VISUNET PANEL PC (PC8200)

VisuNet panel PCs are industrial monitors with an integrated industrialgrade PC. Panel PCs operate as stand-alone solutions for combined plant control and visualization. Standard interfaces include Ethernet, USB, and serial ports. The Windows[®] operating system allows the user to install software packages for plant control, visualization, and production. Two processor options ensure compatibility with the majority of off-theshelf HMI and SCADA software. Panel PCs communicate directly with PLCs within the same cabinet or are networked over Ethernet or serial communications.

- Full PC with excellent performance from the Intel[®] Atom[™] or Core[™] 2 Duo processor
- Low power consumption allows the unit to conserve energy and dissipate very little heat when idling
- 📕 80 GB SSD
- 📕 Fanless design
- Rack mount option



Vibration and shock resistance are what make VisuNet panel PCs suitable for extreme conditions.

SPECIFICATIONS

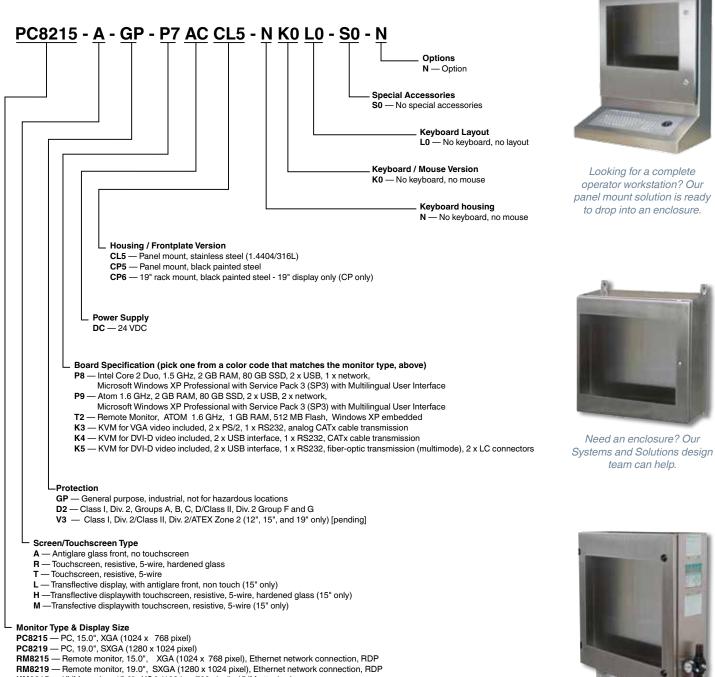
The VisuNet product family offers a wide range of models that includes various display sizes and communications protocols.



Vibration and shock resistance are what make VisuNet panel PCs suitable for extreme conditions.

	RM	PC	КМ				
Display							
Screen Size	15.0" / 19.0"						
Display Resolution	1024 x 768 (XGA) / 1280 x 1024 (SXGA)						
Brightness	GP, Div 2: 15" 500 nits, transflective 600 nits, 19" 300 nits / ATEX Zone 2: 15"400 nits, 19" 500 nits						
Viewing Angle	160°						
MTBF	500,000 hrs backlamp 50,000 hrs (typical)						
Input Devices							
Touchscreen (optional)	5-wire resistive touch						
PC System							
Processor	1.6 GHz Atom, N270	1.6 GHz Atom / GHz Core 2 Duo	KVM, VGA, DVI Copper or Fiber Optic				
RAM	1 GB RAM DDR2	2 GB RAM DDR2	none				
Mass Storage	512 MB (CompactFlash)	80 GB solid state	none				
Interfaces	2 x GB Ethernet, 1 x USB, 1 x RS232	1 x GB Ethernet, 2 x USB, 1 x RS232 2 x GB Ethernet, 2 x USB, audio, 1 x RS232 (Core 2 Duo)	2 x USB, or 2 x PS/2, 1 x RS232, audio				
Environmental/Electrical							
Ambient / Storage Temperature	-20 °C to 50 °C / -20 °C to 60 °C						
Humidity	0% to 90% non-condensing						
Vibration	5 Hz to 100 Hz, 1 g 12 m/s² all axes						
Shock	30 g, 6 ms, all axes						
Supply Voltage	20 VDC to 30 VDC, 100 VAC to 240 VAC, 50 Hz to 60 Hz						
Power Consumption	60 W (Core™ 2 Duo), 48 W (ATOM)						
Weights and Dimensions							
Dimensions	15" = 16.9" (429) x 13.6" (345) x 4.4" (112) 19" = 19.0" (483) x 16.2" (411) x 4.4" (112)						
Weight	15" = 19 lbs (8.6 kg) 19" = 25 lbs (11.3 kg)						
Degree of Protection	Type 4 or 4X (front panel)						
Certifications							
North America	$_{\rm C}$ UL _{US} , Class I / Div 2, Groups A-D, T4 / $_{\rm r}$ R1 $_{\rm os}$, Class II / Div 2, F and G, T4						
ATEX	CE EX II3 G Ex nA IIc T4 (pending)						





- KM8215 KVM monitor, 15.0°, XGA (1024 x 768 pixel), KVM attached KM8219 KVM monitor, 19.0°, SXGA (1280 x 1024 pixel), KVM attached

Panel mount solutions can be easily made into a sleek Div. 1 solution with our integrated purge component kit.

team can help.

SPECIFICATIONS

We offer a variety of configurable options and features to create the exact panel mount solution for your application. Don't see the exact options that you need? In addition to our standard products, we also offer custom engineered solutions designed by our in-house engineers. Pepperl+Fuchs is a UL 508 and Industrial controls for hazardous location (NNNY & 698A) certified panel shop. Talk to us about your requirements, and we can provide CAD drawings and a quote in two to three business days.

PRODUCT SPECIFICATIONS

Model Number		DM510	DM512	DM515	DM519	DM522
Diagonal Viewing Area	ving Area (in)		12.1	15	19	22
Equivalent CRT Size (in)		12	14	17	21	-
Native Resolution		800 x 600	800 x 600	1024 x 768	1280 x 1024	1680 x 1050
Maximum Resolution		800 x 600	800 x 600 1024 x 768		1600 x 1200	1680 x 1050
Brightness	(nit)	400	400	500	300	300
Overall: Width x Height x Depth	(in)	12.1 x 9.9 x 3	13.9 x 11.5 x 3	16.9 x 13.6 x 2.9	19 x 16.2 x 3.7	22.5 x 15.5 x 3.0
	(mm)	307 x 252 x 76	353 x 292 x 76	429 x 345 x 74	483 x 412 x 94	572 x 394 x 76
Cutout: Width x Height	(in)	11.1 x 8.9	12.6 x 10.2	15.9 x 12.6	17.9 x 15.2	21.2 x 14.2
	(mm)	282 x 226	320 x 259	404 x 320	455 x 386	536 x 358
Panel Mount				•	•	
Enclosed Mount			•	•		
Chassis Mount				•		
Stainless Steel Bezel						
Current Consumption: @ 12 VDC		1.2 A	1.2 A	2.5 A	3.2 A	4.5 A
_c UL _{us} Class I/Div. 2						
_c UR _{us} Class II/Div. 2						
Atex Zone 2				•	•	



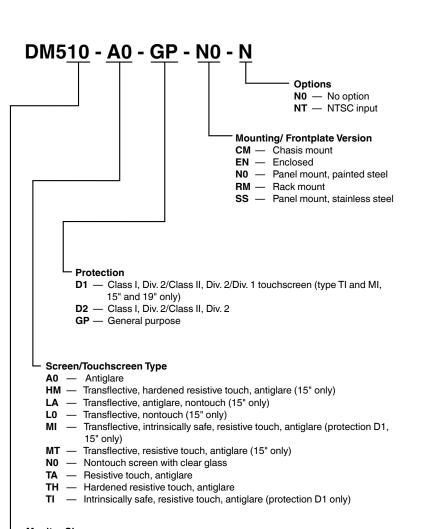
Displays can be integrated with purge systems for Class I/Div.1 hazardous environments.



Designed for continuous duty: Heavy gauge metal and wiring, corrosion protection, internal bulkhead wiring, and gold-plated latching tie downs.

MODEL INDEX

ACCESSORIES



PowerScan is an industrial handheld barcode

scanner designed for use in Class I, II, III, Div. 2 and

Zone 1/21 hazardous areas. It connects to a host computer up to 150 meters away or operates in combination with VisuNet operator.

Zone 1 and Class I, Div. 2 keyboard options are available with touchpad mouse, optical trackball mouse, or joystick mouse. All keyboards are chemically resistant and have antimicrobial properties.



- **10** 10.0" monitor **12** — 12.0" monitor
- **15** 15.0" monitor
- **19** 19.0" monitor
- 22 22.0" monitor



The DM519-XX-XX-PT is a direct drop-in replacement for existing and legacy competitor monitor cutouts including, Allen-Bradley, Nematron, Xycom, and Protech.

YOUR DEMAND. OUR CHALLENGE.

PROCESS INTERFACES

- Intrinsic Safety Barriers
- Signal Conditioners
- FieldConnex Fieldbus Infrastructure
- Remote I/O Systems
- HART Interface Solutions
- Level Measurement
- Purge+Pressurization Systems
- Industrial Monitors+HMI Solutions
- Explosion Protection Equipment
- Process Interface Solutions
- Wireless Solutions

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

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