



Remote Monitor VisuNet GMP RM221

- Thin Client solution (with VisuNet RM Shell firmware)
- 21.5" (54.6 cm); 1920 x 1080 Full HD
- 16:9 aspect ratio widescreen formatting to match engineering stations
- Full HD Resolution
- Stainless steel housing with a surface finish of $\leq 0.8 \mu\text{m}$
- Easy-to-clean design that complies with GMP guidelines
- IP65 rating of the entire system

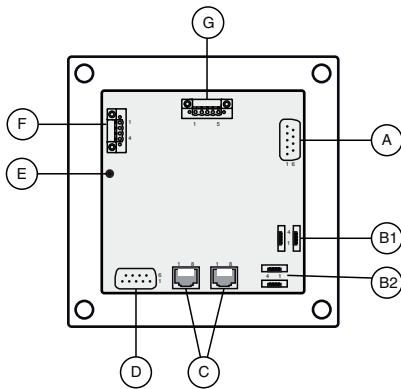
21.5 inch (54.6 cm) remote monitor



Function

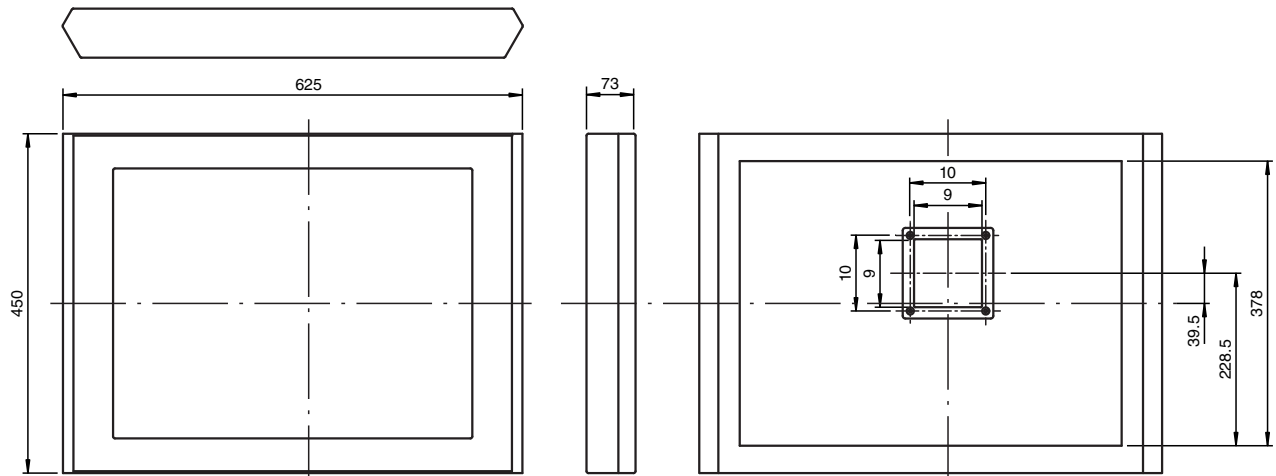
VisuNet GMP devices are operator workstations for use in GMP conditions and come with a manufacturer's declaration of conformity to this effect. Typical application locations are the pharmaceutical and food industries as well as the production of cosmetics, flavour and nutrition. The operator workstations are available as Direct Monitors, KVM Monitors, Remote Monitors and as Panel PCs. The Remote Monitors are suitable for use in distributed control systems or can be connected to several Host PCs. The network capabilities of the Remote Monitors ensure failure-free and pure digital data transmission. The operator workstations are administered via their IP addresses, so that topology changes can be made without hassle. No additional software installation is required.

Assembly



- | | |
|----|--|
| A | Serial interface RS-232 (COM3) |
| B1 | 2 x USB for keyboard/mouse |
| B2 | 2 x USB (see "Interface" section on datasheet) |
| C | 2 x Network RJ45 |
| D | Serial interface RS-232 (COM1) |
| E | Ground connection (M4) |
| F | Power supply socket AC/DC |
| G | Connection barcode handheld (COM6) |

Dimensions



Technical Data

General specifications

Type	Remote Monitor
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Hardware

Processor	Thin Client - 1.46 GHz Intel® Atom™ E3826 alternative: 1.58GHz Intel® Celeron N2807 *
RAM	4 GB RAM
Mass storage	compact flash: 32 GB CFAST

Supply

Rated voltage	U_r	24 V DC or 115 V AC / 230 V AC
Input voltage range	U	20 ... 30 V DC or 90 ... 240 V AC
Power consumption		max. 60 W

Indicators/operating means

Display	
Type	Liquid Crystal Display (LCD) with LED backlight
Screen diagonal	54.6 cm (21.5 inch)
Resolution	1920 x 1080 pixels (Full HD) Aspect ratio 16:9
Color depth	24-bit color depth (16.7 million colors)
Contrast	5000:1 (typically)
Brightness	300 cd/m ² (nit)
Life span	back lamp life: 50.000 hrs typical half life , at 25 °C (77 °F)
Input devices	optional: projective capacitive, 10 finger multi-touch, glove-friendly optional: analog-resistive Foil keyboard with different pointing device options available (see EXTA3 datasheet)

Electrical specifications

Inrush current	max. 100 A @ 240 VAC approx. 0,5 ms
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Interface

Interface type	2 x RS-232 2 x USB (with option "-C" antiglare safety glass, projective capacitive, 10-finger multi-touch, one USB port is occupied and therefore only 1 x USB is available) 2 x USB (only for keyboard and mouse) 2 x network RJ45
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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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

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Technical Data

Compliance with standards and directives	
Standard conformity	
Electrical safety	EN 60950-1 Class I equipment
Software	
Operating system	VisuNet RM Shell 5 (based on Microsoft® Windows® 10 IoT LTSB)
Ambient conditions	
Ambient temperature	0 ... 50 °C (32 ... 122 °F)
Storage temperature	-10 ... 60 °C (14 ... 140 °F)
Relative humidity	max. 85 % non-condensing
Altitude	2000 m above MSL (version AC)
Mechanical specifications	
Degree of protection	IP65
Material	
Surface	System housing: stainless steel 1.4301 / AISI 304 except rear panel Rear panel: aluminum 6061 T6 anodized with nickel acetate EXTA3--F--U02-C-10-N hinges: zinc die-cast nickel-plated (Cu-Ni layer system)
Surface quality	$R_a \leq 0.8 \mu\text{m}$
Mounting type	slim line housing see mounting options datasheets: several mounting types (pedestal, wall bracket, wall arm - each turnable or fix) available
Mass	approx. 13 kg
Dimensions	625 mm x 450 mm x 73 mm (monitor)
General information	
Supplementary information	* see Typelabel 2021 alternative, processor can not be chosen

Accessories

	VisuNet GMP*	
	VISUNET-RM-SHELL5 (2016 LTSB)	Thin Client Firmware for VisuNet Remote Monitors and Box Thin Clients
	VISUNET-CONTROL-CENTER	Additional Management tool for VisuNet Remote Monitors and Box Thin Clients
	VISUNET-RM-SHELL5-CC	VisuNet Control Center License Key for RM Shell 5
	VISUNET-RM-SHELL5-DRDC	DRDC License Key for RM Shell 5
	VISUNET-RM-SHELL5-PRO	PRO License Key for RM Shell 5
	EXTA3*-K1*	Zone 2 / Division 2 keyboard without mouse
	EXTA3*-K3*	Zone 2 keyboard with mechanical trackball mouse
	EXTA3*-K4*	Zone 2 / Division 2 keyboard with capacitive touchpad mouse
	EXTA3*-K6*	Zone 2 / Division 2 keyboard with joystick mouse

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

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Accessories

	<p>EXTA3*-K8*</p>	<p>Zone 2 / Division 2 keyboard with optical trackball mouse</p>
	<p>EXTA3*-K9*</p>	<p>Zone 2 / Division 2 keyboard with resistive touchpad mouse</p>

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Type code VisuNet GMP RM*

Monitor Type	Screen Type	Protection	Board specification	Power supply	Housing frontplate version	Keyboard housing	Keyboard Mouse version	Keyboard Layout	Accessories	Options
Monitor Type, Display size										
RM219	Remote Monitor 19 in									
RM221	Remote Monitor 21.5 in									
RM222	Remote Monitor 22 in									
Screen Type										
E	antiglare glass front									
T	Touch screen resistive									
C	Antiglare safety glass, projected capacitive, 10-finger multi-touch									
Protection										
GP	Industrial, non-Ex version									
Board Specification										
T6	Thin Client - Intel Atom E3826 1.46 GHz, 4GB RAM, 32GB Compact Flash (CFast), VisuNet RM Shell 5.x (based on Microsoft Windows 10 IoT LTSB)									
Power supply										
DC	24 V DC									
AC	115/230 V AC									
Housing frontplate version										
SL2N	Slim-Line stainless steel housing									
Keyboard housing										
N	no keyboard & mouse housing									
R	Keyboard & mouse housing, stainless steel									
C	Keyboard & mouse housing, tiltable 90 ... 180 degrees, stainless steel									
Keyboard / Mouse version										
K0	No keyboard									
K4	Foil keyboard & touchpad									
K6	Foil keyboard & joystick									
K8	Foil keyboard & optical trackball									
Keyboard Layout										
L0	No keyboard									
DE	Keyboard layout German									
US	Keyboard layout US-international									
XX	More keyboard layouts by request									
Special accessories										
S0	no special accessories									
Options										
N	Standard, no options									

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