



## Panel PC

### VisuNet GMP PC221

- PC solution with pre-installed Windows® operating system
- 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

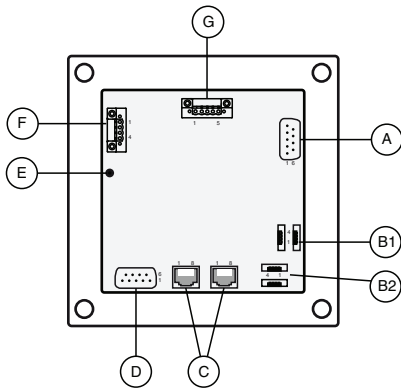
21.5 inch (54.6 cm) panel PC



### Function

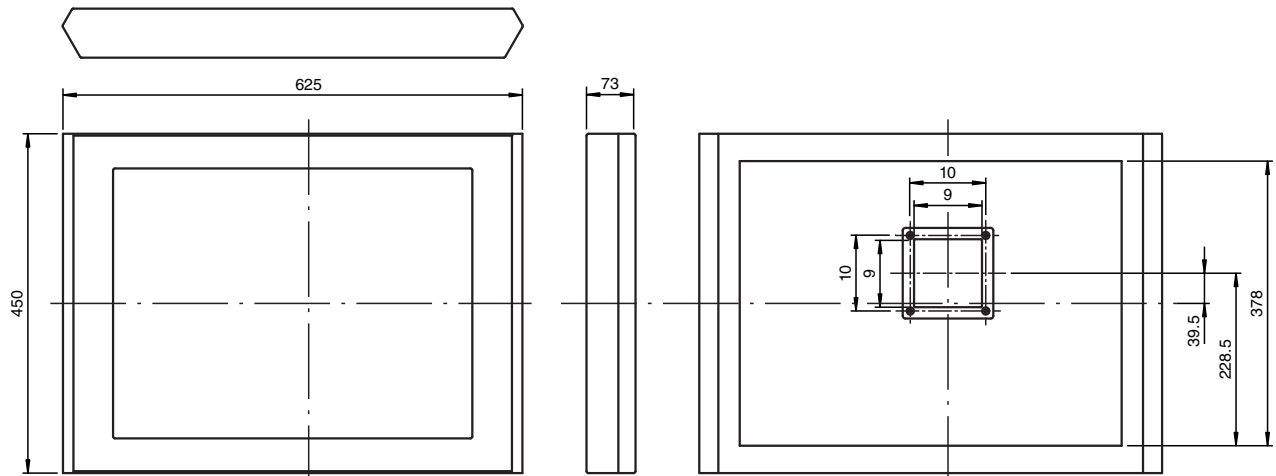
VisuNet GMP devices are operator workstations for use in GMP conditions and come with a manufacturer's declaration of conformity to this effect. Typical application locations are the pharmaceutical and food industries as well as the production of cosmetics, flavor, and nutrition. The operator workstations are available as direct monitors, KVM monitors, remote monitors, and as panel PCs. The panel PCs are especially suitable as stand-alone solutions or in conjunction with a PLC. Panel PCs come with all the functionality of PCs. The Panel PCs run under Windows® 7 Ultimate FES (32-bit or 64-bit) or Windows® 10 IoT Enterprise LTSC. Software packages for control, visualization, and production can thus be easily installed.

### Connection



- A Serial interface RS-485 (COM3)
- B1 2 x USB for keyboard/mouse
- B2 2 x USB (see "Interface" section on datasheet)
- C 2x Network RJ-45
- 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	Personal Computer
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### Hardware

Processor	Intel® Atom™ E3826 1.46 GHz
RAM	Up to 8 GB RAM
Mass storage	120 GByte Solid State Drive

### 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 <sup>2</sup> (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	1 x RS232; 1 x RS485 2 x USB (with option "-C" ant glare safety glass, projective capacitive, 10-finger multi-touch, one USB port is occupied and therefore only 1 x USB is available) 2 x USB (for keyboard/mouse connection) 2 x network RJ45
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### Compliance with standards and directives

## Technical Data

Standard conformity	
Electrical safety	EN 60950-1 Class I equipment
<b>Software</b>	
Operating system	Microsoft® Windows® 10 IoT Enterprise 2016 LTSB (x 64)
<b>Ambient conditions</b>	
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)
<b>Mechanical specifications</b>	
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)

## Accessories

	<b>VisuNet GMP*</b>	
	<b>EXTA3*-K1*</b>	Zone 2 / Division 2 keyboard without mouse
	<b>EXTA3*-K3*</b>	Zone 2 keyboard with mechanical trackball mouse
	<b>EXTA3*-K4*</b>	Zone 2 / Division 2 keyboard with capacitive touchpad mouse
	<b>EXTA3*-K6*</b>	Zone 2 / Division 2 keyboard with joystick mouse
	<b>EXTA3*-K8*</b>	Zone 2 / Division 2 keyboard with optical trackball mouse
	<b>EXTA3*-K9*</b>	Zone 2 / Division 2 keyboard with resistive touchpad mouse

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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**Type code VisuNet GMP PC\***

Monitor Type	Screen Type	Protection	Board specification	Power supply	Housing frontplate version	Keyboard housing	Keyboard Mouse version	Keyboard Layout	Accessories	Options
<b>Monitor Type, Display size</b>										
PC219	Panel-PC 19 in									
PC221	Panel-PC 21.5 in									
PC222	Panel-PC 22 in									
<b>Screen Type</b>										
E	antiglare glass front									
T	Touch screen resistive									
C	Antiglare safety glass, projected capacitive, 10-finger multi-touch									
<b>Protection</b>										
GP	Industrial, non-Ex version									
<b>Board Specification</b>										
PI	Intel Atom E3826, 1.46 GHz, 8 GB RAM, 120 GB SSD, Windows 10 IoT Enterprise 2016 LTSB (64-bit)									
<b>Power supply</b>										
DC	24 V DC									
AC	115/230 V AC									
<b>Housing frontplate version</b>										
SL2N	Slim-Line stainless steel housing									
<b>Keyboard housing</b>										
N	no keyboard & mouse housing									
R	Keyboard & mouse housing, stainless steel									
C	Keyboard & mouse housing, tiltable 90 ... 180 degrees, stainless steel									
<b>Keyboard / Mouse version</b>										
K0	No keyboard									
K4	Foil keyboard with touchpad									
K6	Foil keyboard with joystick									
K8	Foil keyboard with optical trackball									
<b>Keyboard Layout</b>										
L0	No keyboard									
DE	Keyboard layout German									
US	Keyboard layout US-international									
XX	More Keyboard layouts by request									
<b>Special accessories</b>										
S0	no special accessories									
<b>Options</b>										
N	Standard, no options									

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