

## Features

- Panel PC
- Device installation in Zone 2 or Zone 22
- 22" Monitor (55,9 cm)
- Network based data transfer via Ethernet
- Adapted for long distances between Panel PC and automation devices via LAN

## Application

VisuNet EX2 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 Remote Monitors and as Panel PCs.

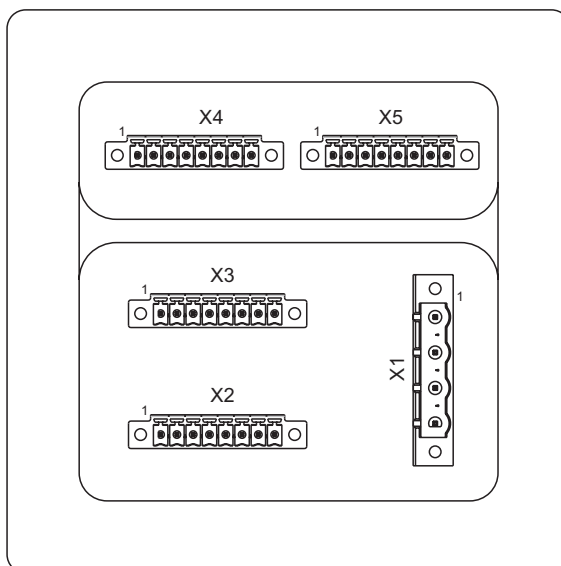
The Panel PCs are especially suitable as standalone solutions or in conjunction with a PLC.

Panel PCs come with all the functionality of PCs.

The Panel PCs run under Windows XP Professional or Windows 7 Ultimate FES. Software packages for control, visualisation and production can thus be easily installed.



## Connection



- X1 Power supply Ex nA
- X2 Ethernet Ex nA
- X3 Com 1 Ex nA; USB Ex nA
- X4 USB Ex ic (mouse/keyboard)
- X5 USB Ex ic;  
TTY (Powerscan PSCAN) optional

Devices of type VisuNet EX2 GMP always consist of 2 units:

1. VisuNet EX2 GMP basic unit (display)
2. EX2 mounting bracket

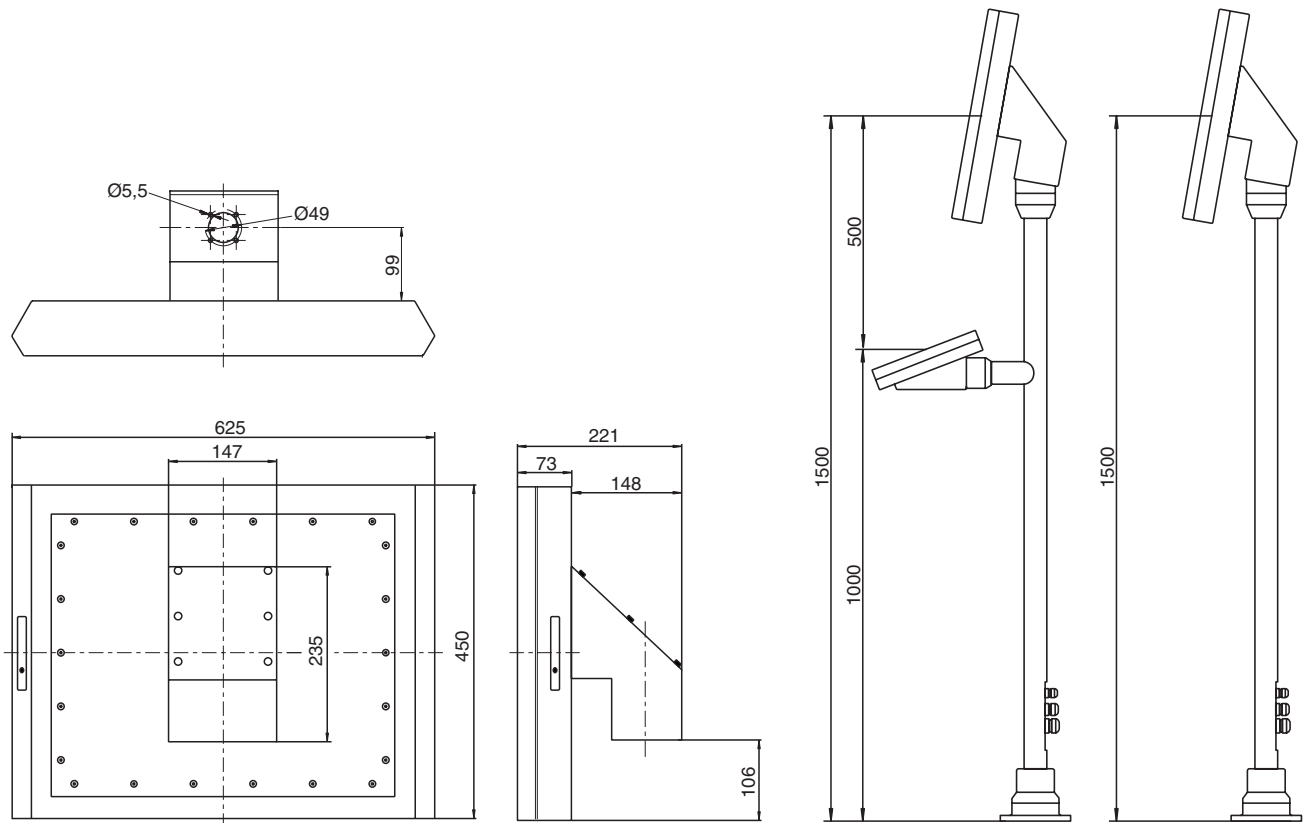
Only VisuNet EX2 GMP basic units (displays) with proper EX2 mounting bracket are allowed to be used in hazardous areas (zone 2/22).

<b>General specifications</b>	
Type	Panel PC
<b>Hardware</b>	
Processor	1.6 GHz Intel® Atom™
RAM	2 GB
Mass storage	80 GByte Solid State Drive
<b>Supply</b>	
Rated voltage	24 V DC
Input voltage range	20 ... 30 V DC (SELV)
Power consumption	max. 100 W
<b>Indicators/operating means</b>	
Display	
Type	TFT, LCD
Screen diagonal	55.9 cm (22")
Resolution	1680 x 1050 pixel
Color depth	16.7 Mio. (24 bit, true color)
Contrast	1000:1
Brightness	300 cd/m <sup>2</sup>
Life span	50.000 h @ 25 °C
Input devices	Keyboard with integrated mouse functionality: touchpad/joystick versions available
<b>Interface</b>	
Interface type	1 x Ethernet (Ex nA) , 3 x USB (Ex ic) , 1 x RS 232 (Ex nA) , 1 x USB (Ex nA), 1 x TTY optional
<b>Directive conformity</b>	
Electromagnetic compatibility	
Directive 2004/108/EC	EN 61000-4-2: 2009, EN 61000-4-3: 2006 + A1: 2008, EN 61000-4-4: 2004, EN 61000-4-5: 2006, EN 61000-4-6: 2009, EN 55011: 2009, EN 61000-6-2: 2005, EN 61000-6-4: 2007
Explosion protection	
Directive 94/9/EC	EN 60079-0:2009, EN 60079-11:2007 , EN 60079-31:2009, IEC 60079-15:Ed. 2010
<b>Software</b>	
Operating system	Windows XP Professional / Windows 7 Ultimate FES
<b>Ambient conditions</b>	
Ambient temperature	-10 ... 40 °C (14 ... 104 °F)
Storage temperature	-10 ... °C (14 ... °F) ... 60 °C ( ... 140 °F)
Relative humidity	max. 85 % non-condensing
<b>Mechanical specifications</b>	
Protection degree	IP66
Material	
Surface	stainless steel 1.4301 / AISI 304
Surface quality	R <sub>a</sub> ≤ 0.8 μm
Mounting type	slim line housing several mounting options (pedestal turnable)
Mass	approx. 13 kg
Dimensions	625 mm x 450 mm x 73 mm
<b>Data for application in connection with Ex-areas</b>	
Certificate of conformity	PF 12 CERT 2301 X , Type Examination Certificate on demand
Group, category, type of protection	⊕ II 3G Ex nAnR [ic] IIC T4 Gc ⊕ II 3D Ex tc [ic] IIIC T85°C Dc IP64
Power supply	
Connection	X1: 1 ... 4
Rated voltage	24 V DC
Rated current	< 3.8 A
Maximum safe voltageU <sub>m</sub>	60 V
Interface type 1	
Connection	X2: 1 ... 8
Rated voltage	30 V
Rated current	400 mA
Maximum safe voltageU <sub>m</sub>	60 V
Interface type 2	
Connection	Serial interface RS 232 (Ex nA)
Rated voltage	X3: 1 ... 4
Rated current	±15 V
Maximum safe voltageU <sub>m</sub>	200 mA
Interface type 3	60 V
	USB (Ex nA)

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Connection	X3: 5 ... 8
Rated voltage	5 V
Rated current	< 500 mA
Maximum safe voltage $U_m$	60 V
Interface type 4	USB (Ex ic)
Connection	X4: 1 ... 4 X4: 5 ... 8
Voltage $U_o$	4.95 V
Current $I_o$	234 mA
Power $P_o$	570 mW
Characteristic curve	trapezoid
Internal resistor	41.6 $\Omega$
Lumped capacitances OR inductances	$C_o = 100 \mu\text{F}$ $L_o = 1 \text{ mH}$
Interface type 5	USB (Ex ic)
Connection	X5: 1 ... 4
Voltage $U_o$	4.95 V
Current $I_o$	472 mA
Power $P_o$	1582 mW
Characteristic curve	trapezoid
Internal resistor	33.2 $\Omega$
Lumped capacitances AND inductances	$C_o = 14 \mu\text{F}$ $L_o = 5 \mu\text{H}$
Lumped capacitances OR inductances	$C_o = 100 \mu\text{F}$ $L_o = 0.3 \text{ mH}$
Interface type 6	TTY (Ex ib)
Connection	X5: 5 ... 8
Voltage $U_o$	8.9 V
Current $I_o$	156 mA
Power $P_o$	1.4 W
Characteristic curve	rectangular
Lumped capacitances AND inductances	$C_o = 0.6 \mu\text{F}$ $L_o = 0.15 \text{ mH}$
Lumped capacitances OR inductances	$C_o = 2.4 \mu\text{F}$ $L_o = 3 \text{ mH}$

**Dimensions**



**Accessories**

- PSCAN-B\*
- Base station
- PSCAN-C\*
- Charger
- PSCAN-D-1\*-F2\*
- Barcode reader
- PSCAN-M\*
- Barcode reader
- VisuNet EX2 GMP\*

**Pedestals**

Model Number	Description
PEDESTAL1-150-1P-KP-G-T-304	Pedestal incl. EX2 mounting bracket, turnable approx. 350°, monitor 10° tilted, with pipe for keyboard
PEDESTAL1-150-1P-NP-G-T-304	Pedestal incl. EX2 mounting bracket, turnable approx. 350°, monitor 10° tilted
PEDESTAL1-150-1P-KP-G-T-S3-304	Pedestal incl. EX2 mounting bracket, turnable approx. 350°, monitor 10° tilted, with pipe for keyboard with receptacle for barcode reader mounted
PEDESTAL1-150-1P-NP-G-T-S3-304	Pedestal incl. EX2 mounting bracket, turnable approx. 350°, monitor 10° tilted, with receptacle for barcode reader mounted

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**Type code VisuNet GMP EX2 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>										
PC3722	Panel-PC 22"									
<b>Screen Type</b>										
E	antiglare class front									
<b>Protection</b>										
A1	ATEX II 3GD, IIC									
<b>Board Specification</b>										
P7	Intel Atom 1.6 GHz, 2GB RAM, 80GB SSD, Windows XP professional SP3 multilingual									
P8	Intel Atom 1.6 GHz, 2GB RAM, 80GB SSD, Windows 7 multilingual									
<b>Power supply</b>										
DC	24 V DC									
<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°, stainless steel									
<b>Keyboard / Mouse version</b>										
K0	No keyboard									
K3	Foil keyboard with mechanical trackball									
K4	Foil keyboard with touchpad									
K6	Foil keyboard with joystick									
<b>Keyboard Layout</b>										
L0	No keyboard									
DE	Keyboard Layout German									
US	Keyboard Layout US-international									
FR	Keyboard Layout French									
XX	More Keyboard layouts by request									
<b>Special accessories</b>										
S0	no special accessories									
S3	Wired handheld barcode reader									
A1	Wireless handheld barcode reader									
<b>Options</b>										
N	No options									

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