

## Features

- Remote Monitor
- Device installation in Zone 2 or Zone 22
- 22" Monitor (55,9 cm)
- Network based data transfer via Ethernet (optional RDP, VNC or ICA)
- Adapted for distances up to 90 m
- Can also be operated as multi monitor system and with Host PCs

## 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.

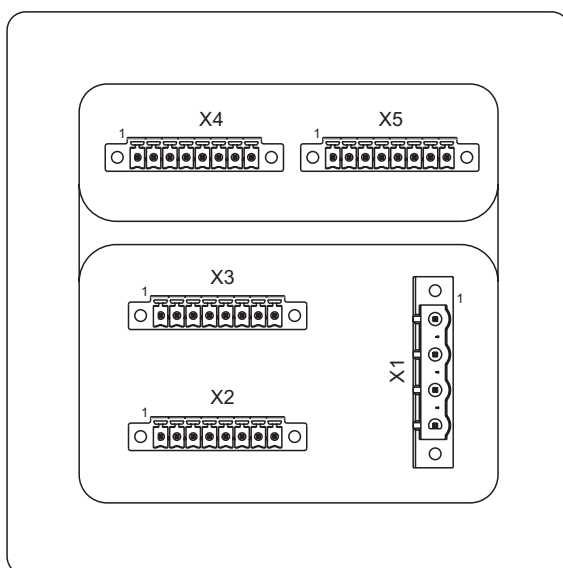
The Remote Monitors are suitable for use in distributed control systems or can be connected to several Host PCs.

Remote Monitors can be operated as multimonitor systems (several RMs at one Host PC or several Host PCs at one RM) as well as in the form of Extended Desktops. Data is being transmitted Host PC either via RDP, VNC or ICA.

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.



## 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

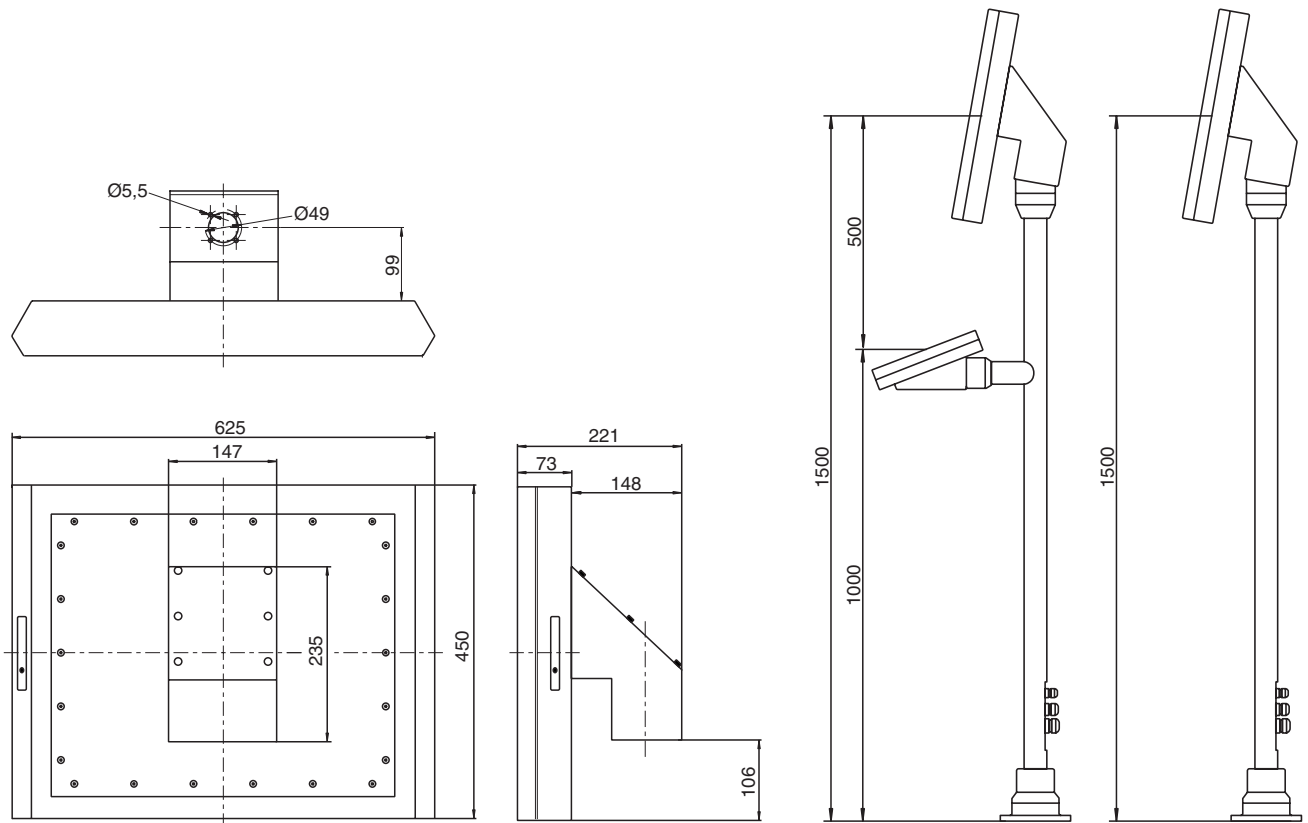
Only VisuNet EX2 GMP basic units (displays) with proper EX2 mounting bracket are allowed to be used in hazardous areas (zone 2/22).

<b>General specifications</b>	
Type	Remote Monitor
<b>Hardware</b>	
Processor	Thin Client
<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 Embedded
<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	±15 V
Rated current	200 mA
Maximum safe voltageU <sub>m</sub>	60 V
Interface type 3	
Connection	USB (Ex nA)
Rated voltage	X3: 5 ... 8 5 V

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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 EX2 GMP RM\***

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>										
RM3722	Remote Monitor 22"									
<b>Screen Type</b>										
E	Etched glass, anti reflex									
<b>Protection</b>										
A1	ATEX II 3GD, IIC									
<b>Board Specification</b>										
T2	Thin Client,									
<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									
<b>Keyboard / Mouse version</b>										
K0	No keyboard									
K3	Foil keyboard & mechanical trackball									
K4	Foil keyboard & touchpad built in									
K6	Foil keyboard & joystick									
<b>Keyboard Layout</b>										
L0	No keyboard									
DE	Keyboard Layout German									
US	Keyboard Layout US-international									
FR	Keyboard Layout French									
XX	Other layouts on demand									
<b>Special accessories</b>										
S0	no special accessories									
S3	Wired handheld barcode reader									
A3	Wireless handheld barcode reader									
<b>Options</b>										
N	VisuNet Control Center, Basic version, RDP, Citrix ICA and VNC Client									
E	VisuNet Control Center full licencs + Multi Monitor Function: Extended Desktop + Clone Display									

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