

## Features

- Remote Monitor
- Device installation in Zone 2 or Zone 22
- 19" Monitor (48.3 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.

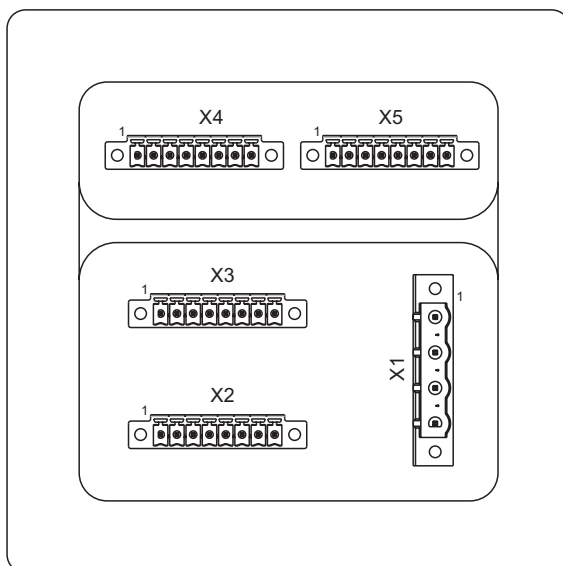
The Remote Monitors are suitable for use in distributed control systems or can be connected to several Host PCs.

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

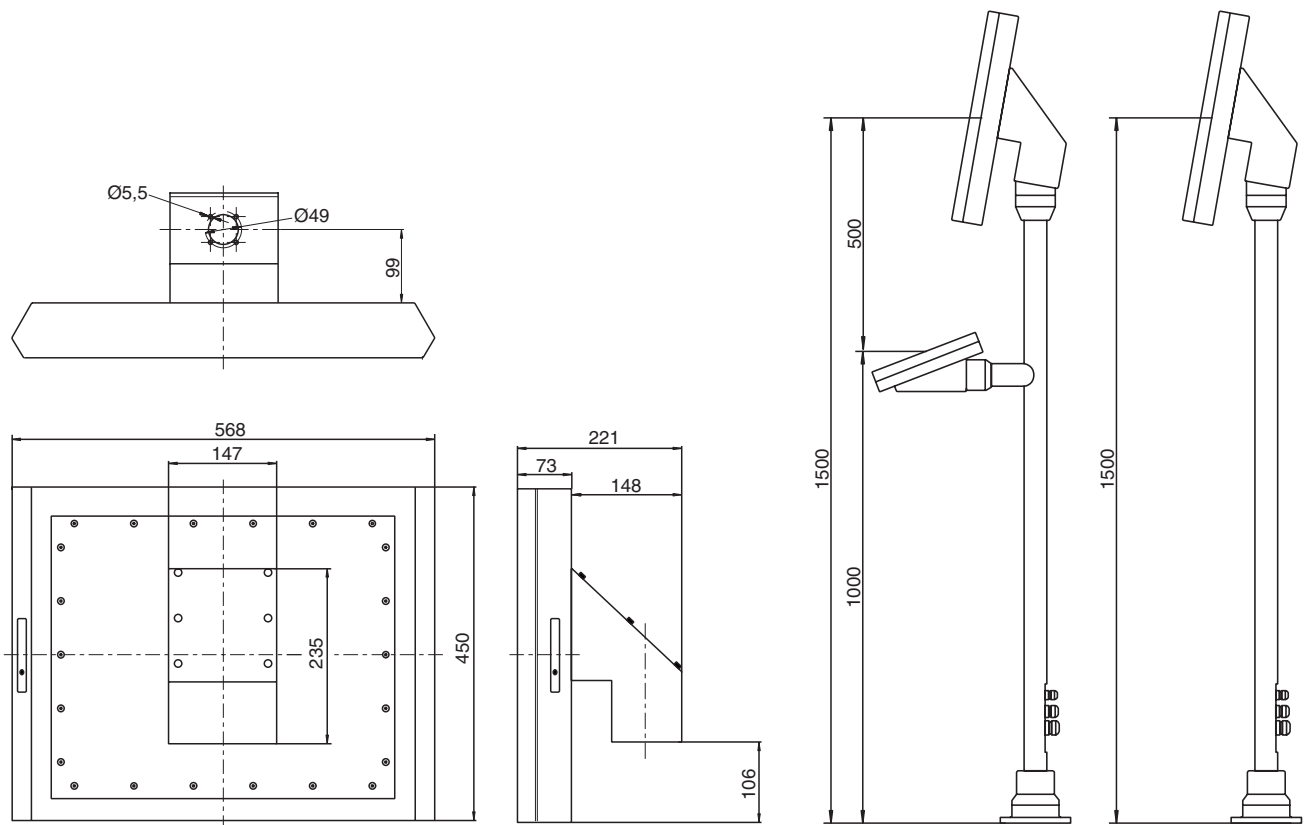
Only VisuNet EX2 GMP basic units (displays) with proper EX2 mounting bracket are allowed to be used in hazardous areas (zone 2/22).

<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. 70 W
<b>Indicators/operating means</b>	
Display	
Type	TFT, LCD
Screen diagonal	48.3 cm (19")
Resolution	1280 x 1024 Pixel
Color depth	16.7 Mio. (24 bit, true color)
Contrast	1300:1
Brightness	300 cd/m <sup>2</sup>
Life span	50.000 h @ 25 °C
Input devices	Analog resistive touchscreen (optional) , 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	0 ... 50 °C (32 ... 122 °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	568 mm x 450 mm x 73 mm
<b>Data for application in connection with Ex-areas</b>	
Certificate of conformity	PF 11 CERT 1922 X , Type Examination Certificate on demand
Group, category, type of protection	⊕ II 3G Ex nAnR [ic] IIC T4 Gc ⊕ II 3D Ex tc [ic] IIIB T85°C Dc IP54
Power supply	
Connection	X1: 1 ... 4
Rated voltage	24 V DC
Rated current	< 2.5 A
Maximum safe voltage U <sub>m</sub>	60 V
Interface type 1	
Connection	Ethernet (Ex nA)
Connection	X2: 1 ... 8
Rated voltage	30 V
Rated current	400 mA
Maximum safe voltage U <sub>m</sub>	60 V
Interface type 2	
Connection	Serial interface RS 232 (Ex nA)
Connection	X3: 1 ... 4
Rated voltage	±15 V
Rated current	200 mA
Maximum safe voltage U <sub>m</sub>	60 V
Interface type 3	
Connection	USB (Ex nA)
Connection	X3: 5 ... 8

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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-M\*
- Barcode reader
- PSCAN-D-1\*-F2-\*
- Barcode reader
- PSCAN-C\*
- Charger
- PSCAN-B\*
- Base station
- 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>										
<b>RM3719</b>	Remote Monitor									
<b>Screen Type</b>										
<b>E</b>	Etched glass, anti reflex									
<b>T</b>	Touch screen resistive									
<b>Protection</b>										
<b>A1</b>	ATEX II 3G Ex nA nR [ic] IIC T4 Gc, II 3D Ex tc [ic] IIIB T85°C Dc IP54									
<b>Board Specification</b>										
<b>T2</b>	Thin Client,									
<b>Power supply</b>										
<b>DC</b>	24 V DC									
<b>Housing frontplate version</b>										
<b>SL2N</b>	Slim-Line stainless steel housing									
<b>Keyboard housing</b>										
<b>N</b>	no keyboard & mouse housing									
<b>R</b>	Keyboard & mouse housing, stainless steel									
<b>Keyboard / Mouse version</b>										
<b>K0</b>	No keyboard									
<b>K3</b>	Foil keyboard & mechanical trackball									
<b>K4</b>	Foil keyboard & touchpad built in									
<b>K6</b>	Foil keyboard & joystick									
<b>Keyboard Layout</b>										
<b>L0</b>	No keyboard									
<b>DE</b>	Keyboard Layout German									
<b>US</b>	Keyboard Layout US-international									
<b>FR</b>	Keyboard Layout French									
<b>XX</b>	Other layouts on demand									
<b>Special accessories</b>										
<b>S0</b>	no special accessories									
<b>S3</b>	Wired handheld barcode reader									
<b>A3</b>	Wireless handheld barcode reader									
<b>Options</b>										
<b>N</b>	VisuNet Control Center, Basic version, RDP, Citrix ICA and VNC Client									
<b>E</b>	VisuNet Control Center full licencs + Multi Monitor Function: Extended Desktop + Clone Display									

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