



# Remote Monitor

## VisuNet EX2 GMP RM3722

- Thin Client solution (with VisuNet RM Shell firmware)
- 22 inch monitor (55.9 cm)
- Certified for ATEX and IECEx Zone 2/22
- Stainless steel housing with a surface finish of  $\leq 0.8 \mu\text{m}$
- Easy-to-clean design that complies with GMP guidelines
- IP66 rating of the entire system

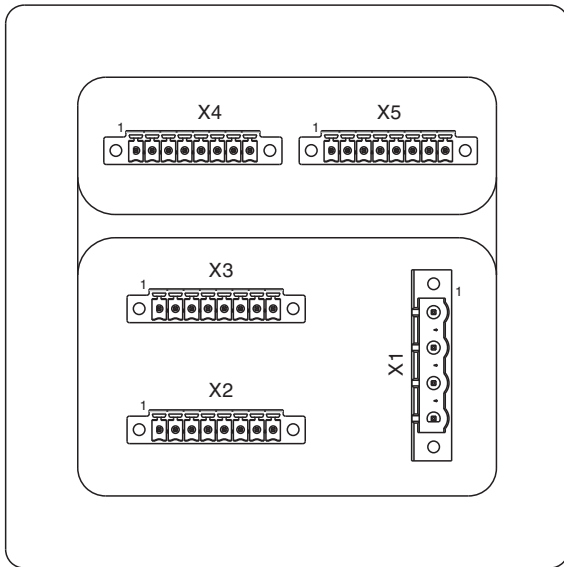
22 inch (55.9 cm) remote monitor



### Function

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, or VNC. 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 ec
- X2 Ethernet Ex ec
- X3 Com 3 Ex ec; USB Ex ec
- X4 USB Ex ic (mouse/keyboard)
- X5 USB Ex ic

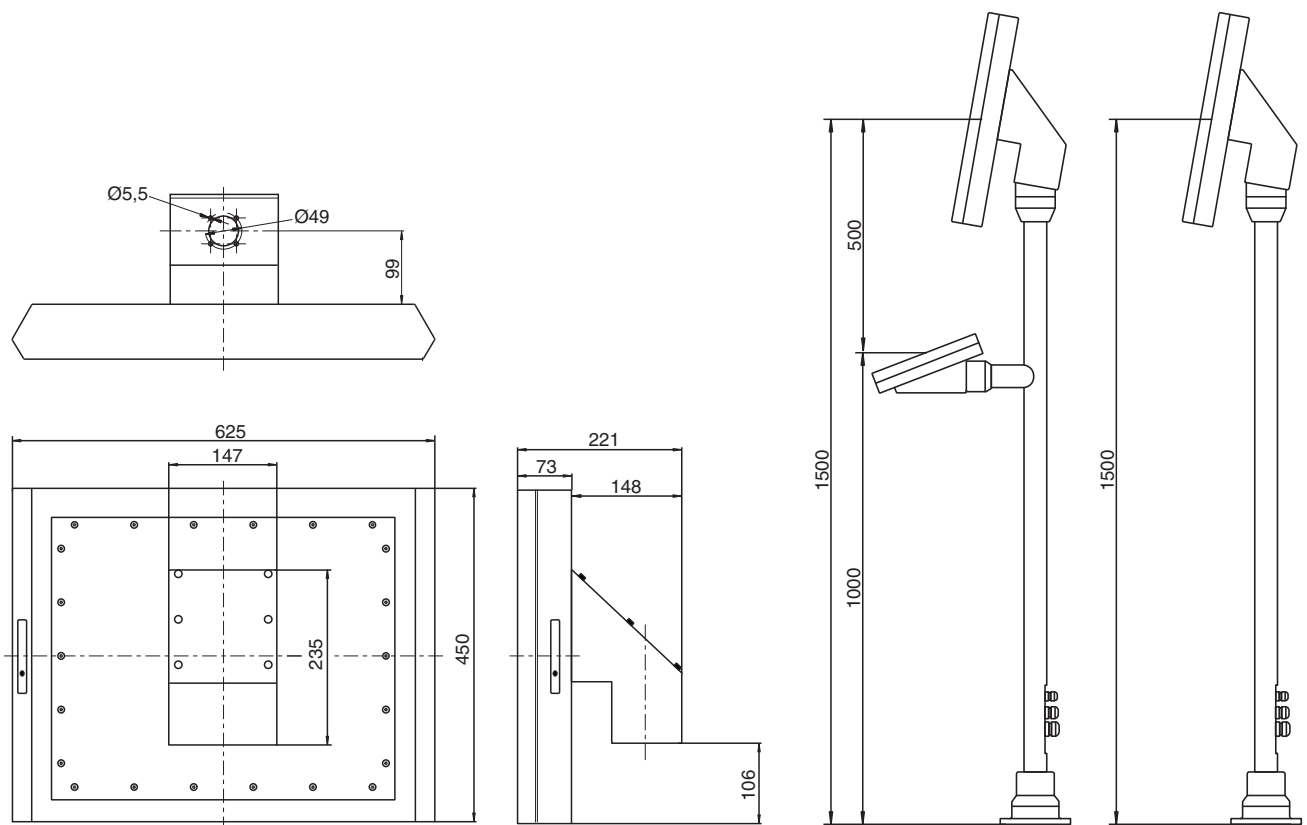
Devices of type VisuNet EX2 GMP always consist of 2 units:

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).

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## 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
Input voltage range	$U$	20 ... 30 V DC (SELV)
Power consumption		max. 60 W

### Indicators/operating means

#### Display

Type	Liquid Crystal Display (LCD) with LED backlight
Screen diagonal	55.9 cm (22 inch)
Resolution	1680 x 1050 pixel
Color depth	24-bit color depth (16.7 million colors)
Contrast	1000:1
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)

### Interface

Interface type	1 x Ethernet (Ex ec) , 3 x USB (Ex ic) , 1 x RS 232 (Ex ec) , 1 x USB (Ex ec)
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### Directive conformity

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

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## Technical Data

<b>Electromagnetic compatibility</b>	
Directive 2014/30/EU	EN 61000-6-2:2005 EN IEC 61000-6-4:2019
<b>Software</b>	
Operating system	VisuNet RM Shell 5 (based on Microsoft® Windows® 10 IoT LTSB)
<b>Ambient conditions</b>	
Ambient temperature	0 ... 45 °C (32 ... 113 °F)
Storage temperature	-10 ... 60 °C (14 ... 140 °F)
Relative humidity	max. 85 % non-condensing
<b>Mechanical specifications</b>	
Degree of protection	IP66
<b>Material</b>	
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 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 hazardous areas</b>	
Certificate	PF 16 CERT B0F0AX
Marking	Ⓢ II 3G Ex ic ec [ic] IIC T4 Gc (capacitive touchscreen) Ⓢ II 3G Ex ic ec nC [ic] IIC T4 Gc (resistive touchscreen) Ⓢ II 3D Ex ic tc [ic] IIC T85°C Dc
<b>Directive conformity</b>	
Directive 2014/34/EU	EN IEC 60079-0:2018 EN 60079-7:2015 EN 60079-11:2012 EN 60079-15:2010 EN 60079-31:2009
<b>Power supply</b>	
Connection	X1: 1 ... 4
Rated voltage	24 V DC
Rated current	< 3.8 A
Maximum safe voltage $U_m$	60 V
<b>Interface type 1</b>	
Connection	Ethernet (Ex ec)
Connection	X2: 1 ... 8
Rated voltage	30 V
Rated current	400 mA
Maximum safe voltage $U_m$	60 V
<b>Interface type 2</b>	
Connection	Serial interface RS 232 (Ex ec)
Connection	X3: 1 ... 4
Rated voltage	±15 V
Rated current	200 mA
Maximum safe voltage $U_m$	60 V
<b>Interface type 3</b>	
Connection	USB (Ex ec)
Connection	X3: 5 ... 8
Rated voltage	5 V
Rated current	< 500 mA
Maximum safe voltage $U_m$	60 V
<b>Interface type 4</b>	
Connection	USB (Ex ic)
Connection	X4: 1 ... 4 X4: 5 ... 8
Voltage $U_o$	4.95 V

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





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## Technical Data

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	$C_o = 100 \mu\text{F}$ $L_o = 0.3 \text{ mH}$
<b>General information</b>	
Supplementary information	* see Typelabel 2021 alternative, processor can not be chosen

## Accessories

	<b>VISUNET-RM-SHELL5 (2016 LTSB)</b>	Thin Client Firmware for VisuNet Remote Monitors and Box Thin Clients
	<b>VISUNET-CONTROL-CENTER</b>	Additional Management tool for VisuNet Remote Monitors and Box Thin Clients
	<b>VISUNET-RM-SHELL5-CC</b>	VisuNet Control Center License Key for RM Shell 5
	<b>VISUNET-RM-SHELL5-DRDC</b>	DRDC License Key for RM Shell 5
	<b>VISUNET-RM-SHELL5-PRO</b>	PRO License Key for RM Shell 5
	<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
	<b>VisuNet EX2 GMP*</b>	

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## 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

## 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>										
RM3719	Remote Monitor 19 in									
RM3721	Remote Monitor 21.5 in									
RM3722	Remote Monitor 22 in									
<b>Screen Type</b>										
E	Etched glass, antiglare									
T	Touch screen resistive									
C	Antiglare safety glass, projected capacitive, 10-finger multi-touch									
<b>Protection</b>										
A1	ATEX II 3G Ex nA nR [ic] IIC T4 Gc, II 3D Ex tc [ic] IIIB T85°C Dc IP54									
<b>Board Specification</b>										
T6	Thin Client - Intel Atom E3826 1.46 GHz, 4GB RAM, 32GB Compact Flash (CFAST), VisuNet RM Shell 5 (based on Microsoft Windows 10 IoT LTSB)									
<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									
XX	Other layouts on demand									
<b>Special accessories</b>										
S0	no special accessories									
<b>Options</b>										
N	Standard, no options									

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