

Remote Monitor VisuNet EX2 GMP RM3719

- Thin Client solution (with VisuNet RM Shell firmware)
- 19 inch monitor (48.3 cm)
- Certified for ATEX and IECEx Zone 2/22
- Stainless steel housing with a surface finish of $\leq 0.8 \,\mu m$
- Easy-to-clean design that complies with GMP guidelines
- IP66 rating of the entire system

19 inch (48.3 cm) remote monitor



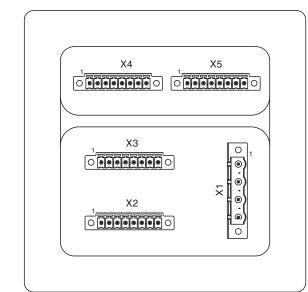
Function

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
- Х3 Com 3 Ex ec; USB Ex ec
- X4 USB Ex ic (mouse/keyboard)
- X5 **USB** Ex ic

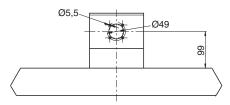
Devices of type VisuNet EX2 GMP always consist of 2 units:

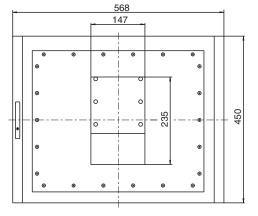
- 1. VisuNet EX2 GMP basic unit (display)
- EX2 mounting bracket 2.

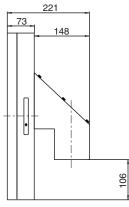
Only VisuNet EX2 GMP basic units (displays) with proper EX2 mounting bracket are allowed to be used in hazardous areas (Zone 2/22).

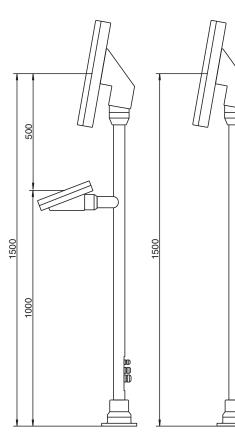
Refer to "General Notes Relating to Pepperl+Fuchs Product Information

Dimensions









Technical Data

Arr Remote Monitor Processor Annow Annonow Annonow Annow					
ArdWare 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 compact flash: 32 GB CFAST Bated voltage U, 24 V DC Input voltage range U, 24 V DC Power consumption max. 60 W ndicators/operating means max. 60 W Display Input voltage range Type Liquid Crystal Display (LCD) with LED backlight Screen diagonal 48.3 cm (19 inch) Resolution 1280 x 1024 Pixel Color depth 24-bit color depth (16.7 million colors) Contrast 1300:1 Brightness 300 cd/m² (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 control options available (see EXTA3 datasheet) Input devices optional: projective capacitive, 10 finger coptions available (see EXTA3 datasheet) Input devices Input devices options available (see EXTA3 datasheet)	General specifications				
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 Rate voltage U, 24 V DC Input voltage range U, 24 V DC nour consumption max. 60 W moticators/operating means max. 60 W Display max. 60 W Type Liquid Crystal Display (LCD) with LED backlight Screen diagonal 48.3 cm (19 inch) Resolution 1280 x 1024 Pixel Color depth 24-bit color depth (16.7 million colors) Color depth 300 cd/m² (nit) Itife span 300 cd/m² (nit) Input devices optional: analog-resistive Foil keyboard with different pointing device options available (see EXTA3 datasheet) Input devices optional: analog-resistive Foil keyboard with different pointing device options available (see EXTA3 datasheet)	Туре		Remote Monitor		
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Interface type 1 x Ethernet (Ex ec) , 3 x USB (Ex ic) , 1 x RS 232 (Ex ec) , 1 x USB (Ex ec)	Input devices		optional: analog-resistive		
	Interface				
Directive conformity	Interface type		1 x Ethernet (Ex ec) , 3 x USB (Ex ic) , 1 x RS 232 (Ex ec) , 1 x USB (Ex ec)		
	Directive conformity				

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

Pepperl+Fuchs Group www.pepperl-fuchs.com

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Electromagnetic compatibility	
Directive 2014/30/EU	EN 61000-6-2:2005
	EN IEC 61000-6-4:2019
Software	
Operating system	VisuNet RM Shell 5 (based on Microsoft® Windows® 10 IoT LTSB)
Ambient conditions	
Ambient temperature	0 50 °C (32 122 °F)
Storage temperature	-10 60 °C (14 140 °F)
Relative humidity	max. 85 % non-condensing
Mechanical specifications	
Degree of protection	IP66
Material	
Surface	System housing: stainless steel 1.4301 / AISI 304 except rear panel Rear panel: aluminum 6061 T6 anodized with nickel acetate EXTA3FU02-C-10-N hinges: zinc die-cast nickel-plated (Cu-Ni layer system)
Surface quality	$R_a \leq 0.8 \ \mu m$
Mounting type	slim line housing several mounting options (pedestal turnable)
Mass	approx. 13 kg
Dimensions	568 mm x 450 mm x 73 mm
Data for application in connection with hazar	dous areas
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
Directive conformity	
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
Power supply	
Connection	X1: 1 4
Rated voltage	24 V DC
Rated current	< 2.5 A
Maximum safe voltage Um	60 V
Interface type 1	Ethernet (Ex ec)
Connection	X2: 18
Rated voltage	30 V
Rated current	400 mA
Maximum safe voltage Um	60 V
Interface type 2	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
Interface type 3	USB (Ex ec)
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

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

Remote Monitor

VisuNet EX2 GMP RM3719

Technical Data

Current I _o	234 mA			
Power Po	570 mW			
Characteristic curve	trapezoid			
Internal resistor	41.6 Ω			
Lumped capacitances OR inductances	$C_o = 100 \ \mu F$ $L_o = 1 \ m H$			
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 Ω			
Lumped capacitances AND inductances	$C_o = 14 \ \mu F \ L_o = 5 \ \mu H$			
Lumped capacitances OR inductances	$C_{o} = 100 \ \mu F \ L_{o} = 0.3 \ mH$			
General information				
Supplementary information	* see Typelabel 2021 alternative, processor can not be choosen			

Accessories

	VISUNET-RM-SHELL5 (2016 LTSB)	Thin Client Firmware for VisuNet Remote Monitors and Box Thin Clients
	VISUNET-CONTROL- CENTER	Additional Management tool for VisuNet Remote Monitors and Box Thin Clients
CC License	VISUNET-RM- SHELL5-CC	VisuNet Control Center License Key for RM Shell 5
DEDC License	VISUNET-RM- SHELL5-DRDC	DRDC License Key for RM Shell 5
PBQ License	VISUNET-RM- SHELL5-PRO	PRO License Key for RM Shell 5
	EXTA3-*-K1-*	Zone 2 / Division 2 keyboard without mouse
	EXTA3-*-K3-*	Zone 2 keyboard with mechanical trackball mouse
	EXTA3-*-K4-*	Zone 2 / Division 2 keyboard with capacitive touchpad mouse
	EXTA3-*-K6-*	Zone 2 / Division 2 keyboard with joystick mouse
	EXTA3-*-K8-*	Zone 2 / Division 2 keyboard with optical trackball mouse
	EXTA3-*-K9-*	Zone 2 / Division 2 keyboard with resistive touchpad mouse
	VisuNet EX2 GMP*	

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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	
Monitor Ty											
RM3719				tor 19 i							
RM3721				tor 21.5							
RM3722				tor 22 i	n						
		Screen Type									
	E Etched glass, antiglare										
	T										
	c Antiglare safety glass, projected capacitive, 10-finger multi-touch										
	Protection A1 ATEX II 3G Ex nA nR [ic] IIC T4 Gc, II 3D Ex tc [ic] IIIB T85°C Dc IP54										
		A1				יון חוו	J 110	14 0	ю, п		
	Board Specification T6 Thin Client - Intel Atom E3826 1.46 GHz, 4GB RAM, 32GB Compact Flash (CFAST), VisuNet R							46 GHz, 4GB BAM, 32GB Compact Flash (CEAST), VisuNet BM			
										lows 10 IoT LTSB)	
					r supply						
				DC	24 V D	C					
					Housin	g fror	ntplate version				
					Slir	lim-Line stainless steel housing					
						Key	eyboard housing				
	N					Ν					
R					R	····;·································					
							Keyboard / Mouse version				
							K0 No keyboard				
							K3 Foil keyboard & mechanical trackball				
							K4 Foil keyboard & touchpad built in				
							K6		-	board & joystick	
							Keyboard Layout				
								L0		keyboard	
								DE			
								US XX		her layouts on demand	
l ·								**		ecial accessories	
									Spe S0		
									30	Options	
										N Standard, no options	
L											

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

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 General General

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