



Remote Monitor

VisuNet EX2 GMP RM3721

- Thin Client solution (with VisuNet RM Shell firmware)
- 21.5" (54.6 cm); 1920 x 1080 Full HD (16:9)
- Suitable for engineering stations
- Certified for ATEX and IECEx Zone 2/22
- Full HD Resolution
- 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

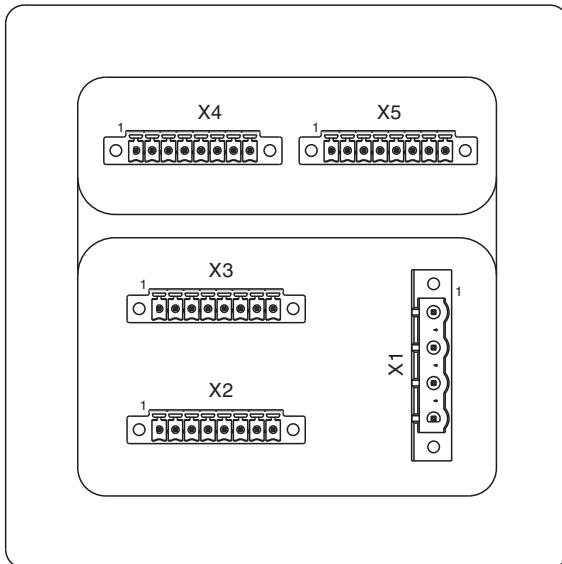
21.5 inch (54.6 cm) remote monitor



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



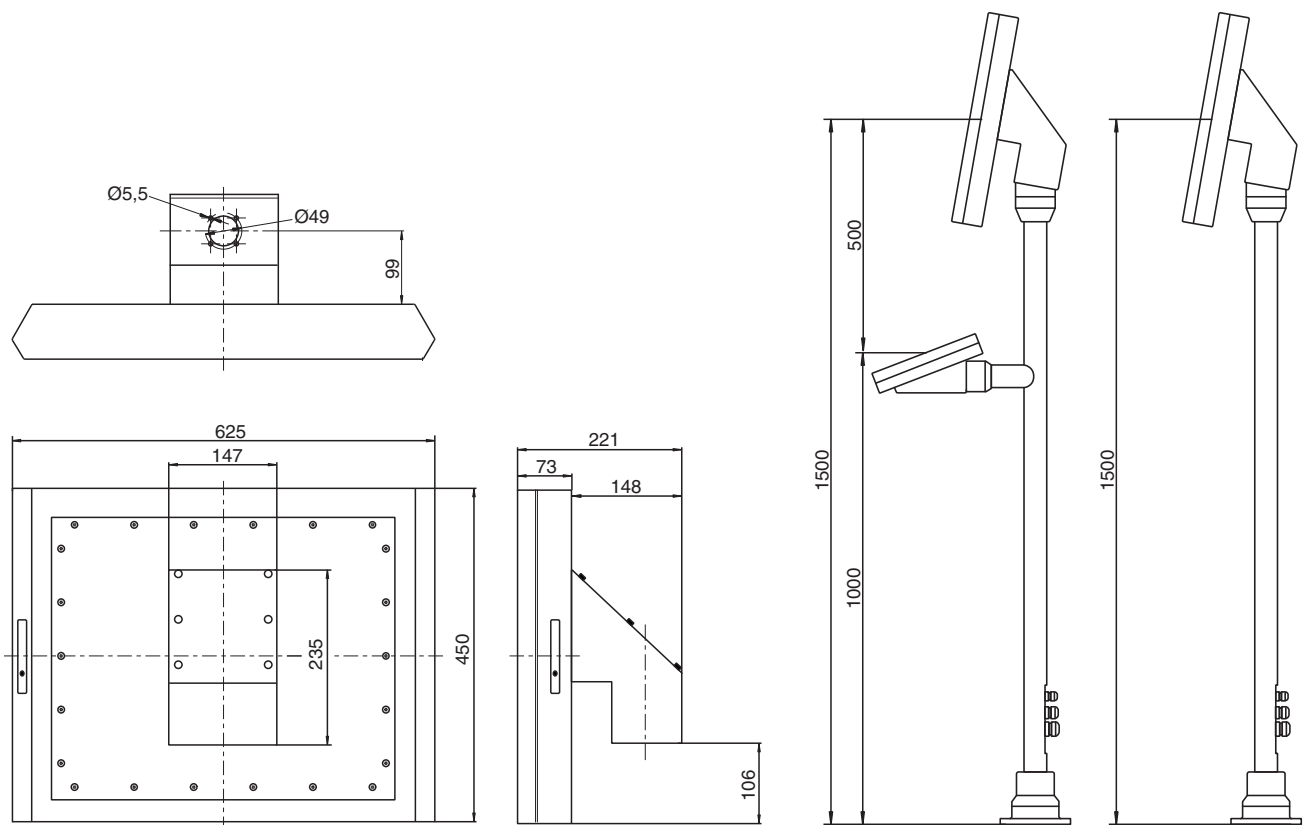
- X1 Power supply Ex ec
- X2 Ethernet Ex ec
- X3 Com 3 Ex ec; USB Ex ec
- X4 USB Ex ic (mouse/keyboard)
- X5 USB Ex ic

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).

Dimensions



Technical Data

General specifications

| | |
|------|----------------|
| Type | Remote Monitor |
|------|----------------|

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 | | 54.6 cm (21.5 inch) |
| Resolution | | 1920 x 1080 pixels (Full HD) Aspect ratio 16:9 |
| Color depth | | 24-bit color depth (16.7 million colors) |
| Contrast | | 5000:1 (typically) |
| Brightness | | 300 cd/m ² (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) |
|----------------|---|

Technical Data

| | |
|--|---|
| Directive conformity | |
| 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 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 |
| Data for application in connection with hazardous 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 (Ex ec) |
| Rated voltage | 24 V DC |
| Rated current | < 3.8 A |
| Maximum safe voltage U_m | 60 V |
| Interface type 1 | |
| Connection | X2: 1 ... 8 |
| Rated voltage | 30 V |
| Rated current | 400 mA |
| Maximum safe voltage U_m | 60 V |
| Interface type 2 | |
| Connection | X3: 1 ... 4 |
| Rated voltage | ± 15 V |
| Rated current | 200 mA |
| Maximum safe voltage U_m | 60 V |
| Interface type 3 | |
| Connection | X3: 5 ... 8 |
| Rated voltage | 5 V |
| Rated current | < 500 mA |
| Maximum safe voltage U_m | 60 V |
| Interface type 4 | |
| Connection | X4: 1 ... 4 X4: 5 ... 8 |

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


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PEPPERL+FUCHS

Technical Data

| | |
|-------------------------------------|--|
| Voltage U_o | 4.95 V |
| Current I_o | 234 mA |
| Power P_o | 570 mW |
| Characteristic curve | trapezoid |
| Internal resistor | 41.6 Ω |
| 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 Ω |
| Lumped capacitances AND inductances | $C_o = 14 \mu\text{F}$ $L_o = 5 \mu\text{H}$ |
| Lumped capacitances OR inductances | $C_o = 100 \mu\text{F}$ $L_o = 0.3 \text{ mH}$ |
| General information | |
| Supplementary information | * see Typelabel 2021 alternative, processor can not be chosen |

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 |
|  | VISUNET-RM-SHELL5-CC | VisuNet Control Center License Key for RM Shell 5 |
|  | VISUNET-RM-SHELL5-DRDC | DRDC License Key for RM Shell 5 |
|  | 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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 **PEPPERL+FUCHS**

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 Type, Display size | | | | | | | | | | |
| RM3719 | Remote Monitor 19 in | | | | | | | | | |
| RM3721 | Remote Monitor 21.5 in | | | | | | | | | |
| RM3722 | Remote Monitor 22 in | | | | | | | | | |
| Screen Type | | | | | | | | | | |
| E | Etched glass, antiglare | | | | | | | | | |
| T | Touch screen resistive | | | | | | | | | |
| 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 | | | | | | | | | |
| Board Specification | | | | | | | | | | |
| 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) | | | | | | | | | |
| Power supply | | | | | | | | | | |
| DC | 24 V DC | | | | | | | | | |
| Housing frontplate version | | | | | | | | | | |
| SL2N | Slim-Line stainless steel housing | | | | | | | | | |
| Keyboard housing | | | | | | | | | | |
| N | no keyboard & mouse housing | | | | | | | | | |
| R | Keyboard & mouse housing, stainless steel | | | | | | | | | |
| Keyboard / Mouse version | | | | | | | | | | |
| K0 | No keyboard | | | | | | | | | |
| K3 | Foil keyboard & mechanical trackball | | | | | | | | | |
| K4 | Foil keyboard & touchpad built in | | | | | | | | | |
| K6 | Foil keyboard & joystick | | | | | | | | | |
| Keyboard Layout | | | | | | | | | | |
| L0 | No keyboard | | | | | | | | | |
| DE | Keyboard Layout German | | | | | | | | | |
| US | Keyboard Layout US-international | | | | | | | | | |
| XX | Other layouts on demand | | | | | | | | | |
| Special accessories | | | | | | | | | | |
| S0 | no special accessories | | | | | | | | | |
| Options | | | | | | | | | | |
| N | Standard, no options | | | | | | | | | |

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