

# Operating and monitoring systems

KVM system SERIES 600

Device platform MANTA

PM MT-667-DVI3-SM



- KVM system for panel mounting, 22" display, 1680 x 1050
- Zone 2, 22, can be installed in hazardous areas without additional enclosure
- Display of the 19" (1280 x 1024) resolution true to 5:4 format
- Optional resistive glass or foil touch screen
- Data transmission via single mode fibre optic up to 10 km.

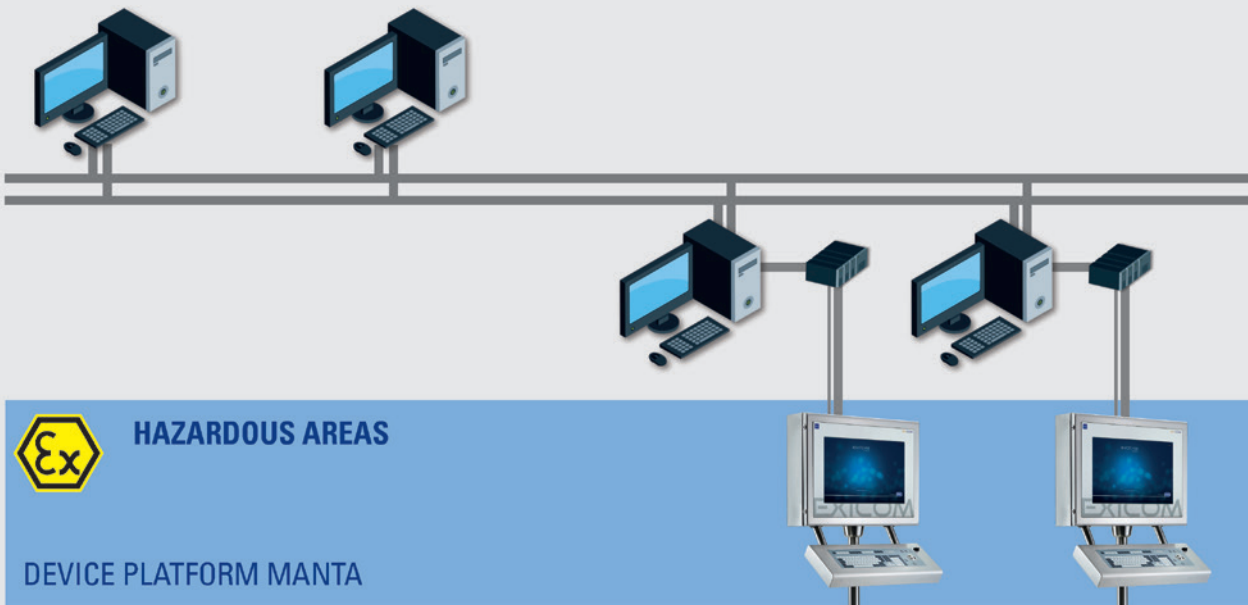
WebCode **MT667A**



The PM MT-667-DVI3 HMI series includes KVM systems for panel mounting in hazardous zones 2 and 22. Their brilliant 22" widescreen displays with a resolution of 1680 x 1050 pixels (format 16:10), are available with or without touch screen. Country-specific keyboards, pointer instruments and RFID and barcode scanners are useful accessories making work easier and extending functionality. Data is transmitted via single mode fibre optic up to 10 km.

## KVM SYSTEMS INTEGRATION

### PC WORKSTATIONS



## Technical Data

### General

Series	Product Series PM MT-667 (discontinued)
Product description	22" KVM system

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#### General

Technology	Remote HMI KVM
HMI type	Panel-mount device
WebCode	MT667A

#### Explosion Protection

Application range (zones)	2 22
Certifications	ATEX, IECEx, EAC, CNEX
IECEx certification	IECEx BVS 14.0034X
ATEX certification	BVS 12 ATEX E 033 X
CNEX certification	CNEX14.2205X
DNV certification	TAA00000BK MT-667-DVI3-yM-FO-TFT-TG-AC-O30-AL devices only!
IECEx gas explosion protection	Ex nA nR [ja op is Ga] IIC T4 Gc
IECEx dust explosion protection	Ex tc IIIC [ja op is Da] IP66 T110°C Dc
ATEX gas explosion protection	II 3(1) G Ex nA nR [ja op is Ga] IIC T4 Gc
ATEX dust explosion protection	II 3(1) D Ex tc IIIC [ja op is Da] IP66 T110°C Dc
CNEX gas explosion protection	Ex nA nR [ja op is Ga] IIC T4 Gc
CNEX dust explosion protection	Ex tc IIIC [ja op is Da] IP66 T110°C Dc

#### Electrical Data

Rated operational voltage DC	24 V
Voltage range DC	20 – 30 V
Rated operational voltage AC	230 V
Voltage range AC	100 – 240 V
Power consumption DC	3 A
Power consumption AC 1	1 A
Protection fuse DC	5 AT
Protection fuse AC	5 AT
Rated operational power	typ. 50 W / 100 W with O30 / max. 150 W (typ. 170 BTU / 341 BTU with O30 / max. 510 BTU)
Transfer technology	KVM-DVI3
Ethernet / Data	Optical fibre single mode
Data cable	9/125 µm FO cable
Data cable length	max. 10 km
Interface medium	Single-mode optical fibre cable
Frequency range	50 – 60 Hz
Interface USB	2 x USB (Ex ia) 1 x USB (Ex nA) 2 x USB (Ex ia) (keyboard, pointing device)
Interface serial	1 x RS-232 (Ex nA)
Interface audio	1 x Audio Line in / out (Ex nA)
WLAN	optional via USB
Connection compartment	Power supply direct in integrated connection box
Connections	via spring clamp terminals, green
Wiring	flexible cable up to 2.5 mm <sup>2</sup> (AWG14) fixed cable up to 4 mm <sup>2</sup> (AWG12)
Plug version FO	LC duplex connector

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#### Electrical Data

Max. input voltage $U_m$	250 VAC
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#### Display

Display version	TFT Colour display
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Display version 2	16.7 million colours
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Display size inch	22
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Display size centimetres	56
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Display resolution	WSXGA+
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Total pixels	1680 x 1050
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Display dimensions	16:10
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Display brightness	250 cd/m <sup>2</sup>
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Display contrast	1000:1
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Touchscreen	Optional resistive
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Touchscreen technology	5-wire glass or membrane touch
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Backlight	LED Technology
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Backlight service life	50 000 h at +20 °C
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Front plate (display)	Aluminium
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#### Ambient Conditions

Ambient temperature operation	-20 °C ... +60 °C
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Ambient temperature operation 1	-30 °C ... +60 °C with heater version O30
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Storage temperature	-30 °C ... +70 °C
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Cold start temperature	-10 °C
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Temperature note 1	The O30 version is only available for the AC version devices !
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Temperature note 2	Operating temperature +60 °C for a maximum of 5 h, for constant operation (24/7) +50 °C.
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Temperature note 3	Cold start temperature: If the HMI device is switched on at a temperature below -10 °C the display will need a certain amount of time to warm up until everything is clearly visible. Depending on how low the temperature is, this process may take up to 3 hours.
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#### Mechanical Data

Dimensions (WxHxD)	660 mm x 475 mm x 110 mm
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Cut-out (WxH)	615 mm x 435 mm (+/-0.5 mm)
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Wall thickness	≤ 5 mm
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Depth of cut-out	110 mm
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Mounting position	vertical or horizontal
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Weight	16 kg
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Material front	Aluminium
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Material back	Steel
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Ingress protection	IP66
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IP enclosure front	IP66
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IP enclosure back	IP66
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Cable gland type	HSK-M-Ex
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Cable gland number	2 x M16, 1 x M20, 3 x M25
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Cable gland thread size	M16 x 1.5 / M20 x 1.5 / M25 x 1.5
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Cable gland cable diameter range	M16 = 4 ... 8 mm / M20 = 6 ... 12 mm / M25 = 14 ... 18 mm
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Cable gland wrench size	M16 = SW 19 / M20 = SW 22 / M25 = SW 30
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## Mounting / Installation

Mounting option	Panel-mount
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## Components

Keyboard	optional, 107 keys with trackball / joystick / mouse / touchpad (Ex ia)
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