

Operating and monitoring systems

KVM system SERIES 600

Device platform MANTA

PM MT-687-DVI3-MM



- KVM system for panel mounting, 24" WU display, 1920 x 1200
- Zone 2, 22, can be installed in hazardous areas without additional enclosure
- Optional resistive glass or foil touch screen
- Data transmission via multi-mode fibre optic up to 550 m

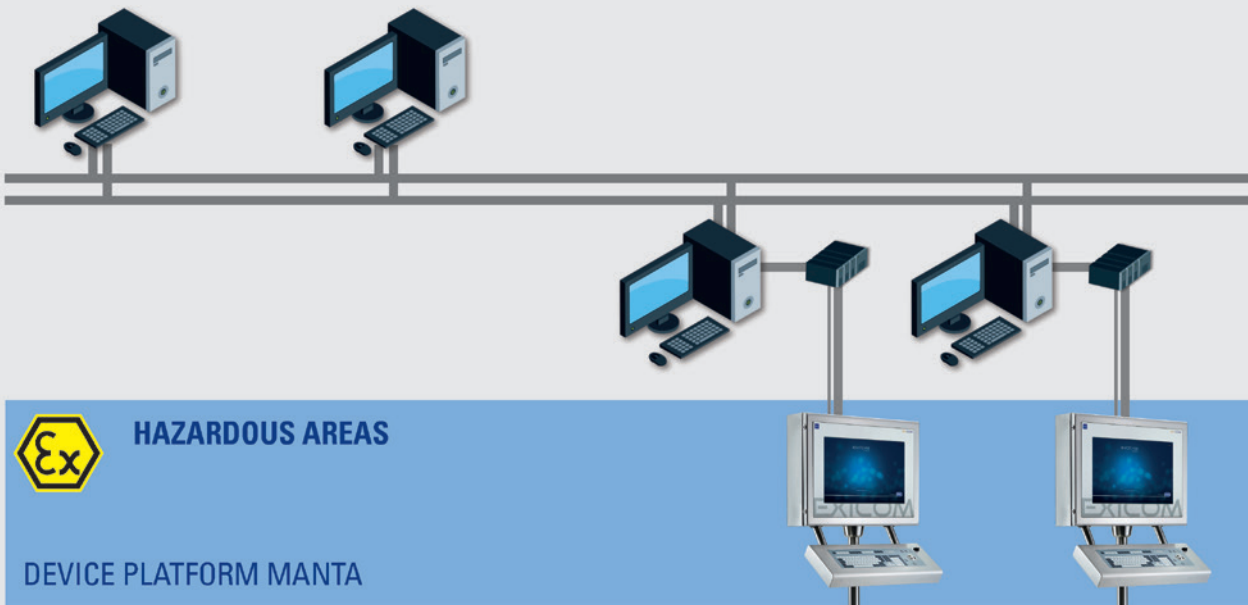
WebCode **MT687A**



The PM MT-687-DVI3 HMI series includes KVM systems for panel mounting in hazardous zones 2 and 22. Their brilliant 24" WU widescreen displays with a resolution of 1920 x 1200 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 multi-mode fibre optic up to 550 m.

KVM SYSTEMS INTEGRATION

PC WORKSTATIONS



Technical Data

General

Series	Product Series PM MT-687 (discontinued)
Product description	24" KVM system

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General

Technology	Remote HMI KVM
HMI type	Panel-mount device
WebCode	MT687A

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-687-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	FO multi-mode
Data cable	50/125 µm FO cable or 62.5/125 µm FO cable
Data cable length	max. 550 m, with 50 µm FO cable max. 300 m, with 62.5 µm FO cable
Interface medium	Multi-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

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Electrical Data

Wiring	flexible cable up to 2.5 mm ² (AWG14) fixed cable up to 4 mm ² (AWG12)
Plug version FO	LC duplex connector
Max. input voltage U _m	250 VAC

Display

Display version	TFT Colour display
Display version 2	16.7 million colours
Display size inch	24
Display size centimetres	61
Display resolution	WUXGA
Total pixels	1920 x 1200
Display dimensions	16:10
Display brightness	300 cd/m ²
Display contrast	1000:1
Touchscreen	Optional resistive
Touchscreen technology	5-wire glass or membrane touch
Backlight	LED Technology
Backlight service life	50 000 h at +20 °C
Front plate (display)	Aluminium

Ambient Conditions

Ambient temperature operation	-20 °C ... +60 °C
Ambient temperature operation 1	-30 °C ... +60 °C with heater version O30
Storage temperature	-30 °C ... +70 °C
Cold start temperature	-10 °C
Temperature note 1	The O30 version is only available for the AC version devices !
Temperature note 2	Operating temperature +60 °C for a maximum of 5 h, for constant operation (24/7) +50 °C.
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 last up to 3 hours.

Mechanical Data

Dimensions (WxHxD)	660 mm x 475 mm x 110 mm
Cut-out (WxH)	615 mm x 435 mm (+/-0.5 mm)
Wall thickness	≤ 5 mm
Depth of cut-out	110 mm
Mounting position	vertical or horizontal
Weight	16 kg
Material front	Aluminium
Material back	Steel
Ingress protection	IP66
IP enclosure front	IP66
IP enclosure back	IP66
Cable gland type	HSK-M-Ex
Cable gland number	2 x M16, 1 x M20, 3 x M25
Cable gland thread size	M16 x 1.5 / M20 x 1.5 / M25 x 1.5

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Mechanical Data

Cable gland cable diameter range	M16 = 4 ... 8 mm / M20 = 6 ... 12 mm / M25 = 14 ... 18 mm
Cable gland wrench size	M16 = SW 19 / M20 = SW 22 / M25 = SW 30

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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