

Operating and monitoring systems

KVM system SERIES 600

Device platform MANTA

PM MT-677-DVI3-SM



- KVM system for panel mounting, 24" display, full HD 1920 x 1080
- Zone 2, 22, can be installed in hazardous areas without additional enclosure
- Optional resistive glass or foil touch screen
- Data transmission via single mode fibre optic up to 10 km.

WebCode **MT677A**

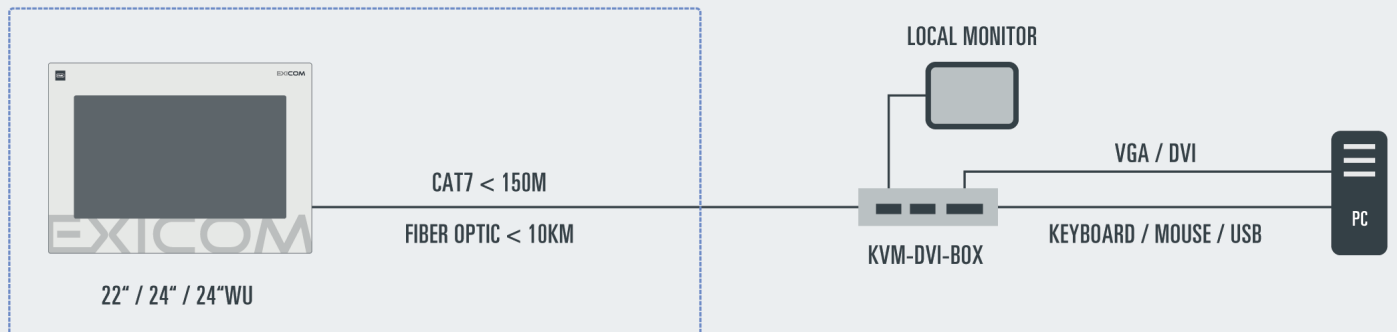


The PM MT-677-DVI3 HMI series includes KVM systems for panel mounting in hazardous zones 2 and 22. Their brilliant 24" WU widescreen displays with a resolution of 1920 x 1080 pixels (format 16:9), are available with or without touch screen. Country-specific keyboards, pointer instruments and RFID and 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 MANTA (SERIES 6X7)

Zone 1 / 2 / 21 / 22 – Class I, Zone 1 / Class I, Div 2 / Safe areas

SAFE AREA



Technical Data

General

Series	Product Series PM MT-677
Product description	24" KVM system
Technology	Remote HMI KVM
HMI type	Panel-mount device
WebCode	MT677A

Explosion Protection

Application range (zones)	2 22
Certifications	ATEX, IECEx, EAC, CNEX

Operating and monitoring systems

KVM system SERIES 600

Device platform MANTA

PM MT-677-DVI3-SM



Explosion Protection

Certification IECEX	IECEX BVS 14.0034X
Certification ATEX	BVS 12 ATEX E 033 X
Certification EAC	TC RU C-DE.ГБ04.B00478
Certification CNEX	CNEx14.2205X
Certification DNV / GL	TAA00000BK MT-677-DVI3-yM-FO-TFT-TG-AC-O30-AL devices only!
Gas explosion protection IECEX	Ex nA nR [ja op is Ga] IIC T4 Gc
Dust explosion protection IECEX	Ex tc IIIC [ja op is Da] IP66 T110°C Dc
Gas explosion protection ATEX	II 3(1) G Ex nA nR [ja op is Ga] IIC T4 Gc
Dust explosion protection ATEX	II 3(1) D Ex tc IIIC [ja op is Da] IP66 T110°C Dc
Gas explosion protection EAC	2Ex nA nR ia [ja op is Ga] IIC T4 Gc X
Dust explosion protection EAC	Ex tc ia IIIC [ja op is Da] IP66 T110°C Dc
Gas explosion protection CNEX	Ex nA nR [ja op is Ga] IIC T4 Gc
Dust explosion protection CNEX	Ex tc IIIC [ja op is Da] IP66 T110°C Dc

Electrical Data

Power consumption AC 1	1 A
Power consumption DC	3 A
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
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
Rated operational voltage AC	230 V
Voltage range AC	100 – 240 V
Rated operational voltage DC	24 V
Voltage range DC	20 – 30 V
Frequency range	50 – 60 Hz
Rated operational power	typ. 50 W / 100 W with O30 / max. 150 W (typ. 170 BTU / 341 BTU with O30 / max. 510 BTU)
Protection fuse AC	5 AT
Protection fuse DC	5 AT
Connection compartment	Power supply direct in integrated connection box
Connections	via spring clamp terminals, green
Wiring	flexible cable up to 2.5 mm ² (AWG14) fixed cable up to 4 mm ² (AWG12)
Max. input voltage Um	250 VAC
Plug version FO	LC duplex connector

Display

Display version	TFT Colour display
Display version 2	16.7 million colours

Operating and monitoring systems

KVM system SERIES 600

Device platform MANTA

PM MT-677-DVI3-SM



Display

Display size inch	24
Display size centimetres	61
Display resolution	Full HD
Total pixels	1920 x 1080
Display dimensions	16:9
Display brightness	300 cd/m ²
Display contrast	1000:1
Touch screen	Optional resistive
Touch screen 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	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
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
-----------------	-------------

Components

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

Operating and monitoring systems

KVM system SERIES 600

Device platform MANTA

PM MT-677-DVI3-SM



We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.