

Operating and monitoring systems

KVM system SERIES 600

Device platform MANTA

PM ET-677-DVI3-MM



- KVM system for panel mounting, 24" display, full HD 1920 x 1080
- Zone 1, 2, 21, 22 und Division 2, 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 **ET677A**

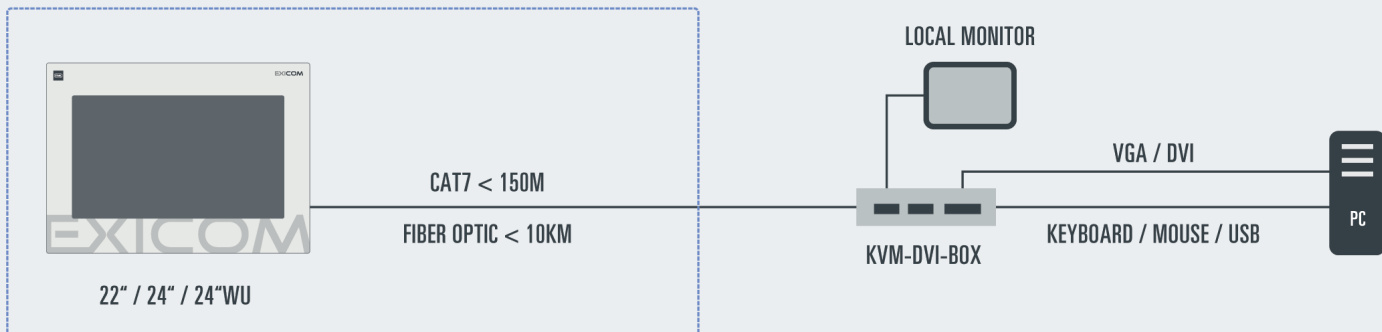


The PM ET-677-DVI3 HMI series includes KVM systems for panel mounting in hazardous zones 1, 2, 21, 22 and Division 2. Their brilliant 24" widescreen displays with a resolution of 1920 x 1080 pixels (format 16:9), are available with or without touch screen. Country-specific keyboards, pointer instruments and RFID and barcode scanners are useful accessories making work easier and extending functionality. Data is transmitted via multi-mode fibre optic up to 550 m.

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 ET-677
Product description	24" KVM system
Technology	Remote HMI KVM
HMI type	Panel-mount device
WebCode	ET677A

Explosion Protection

Application range (zones)	1 2 21 22
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Explosion Protection

Application range (divisions)	Class I, Division 2
Certifications	ATEX, IECEx, NEC, CEC, EAC, KGS
Certification IECEx	IECEx TUR 11.0075X
Certification ATEX	BVS 11 ATEX E 102 X
Certification EAC	TC RU C-DE.ГБ04.B00478
Certification NEC	70011698
Certification CEC	70011698
Certification KGS	12-GA4BO-0617X
Certification KCC	Touch version only, not glass touch
Certification DNV / GL	TAA00000BK ET-677-DVI3-yM-FO-TFT-TG-AC-O30-AL devices only!
Gas explosion protection IECEx	Ex e q [ja op is Ga] IIC T4 Gb
Dust explosion protection IECEx	Ex tb IIIC [ja op is Da] IP65 T110°C Db
Gas explosion protection ATEX	II 2(1) G Ex e q [ja op is Ga] IIC T4 Gb
Dust explosion protection ATEX	II 2(1) D Ex tb IIIC [ja op is Da] IP65 T110°C Db
Gas explosion protection EAC	1Ex e q [ja op is Ga] IIC T4 Gb X
Dust explosion protection EAC	Ex tb IIIC [ja op is Da] IP65 T110°C Db
Explosion protection NEC	Class I, Zone 1 AEx e q [ia] IIC T4 Gb
Explosion protection CEC	Ex e q [ia] IIC T4 Gb Class I, Division 2
Explosion protection KGS	Ex e q IIC T4 Ex tb IIIC IP64 T110°C Ex ia IIC T4 Ex ia IIIB T110°C

Electrical Data

Power consumption AC 1	1 A
Power consumption DC	3 A
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
Interface USB	2 x USB (Ex ia) 1 x USB (Ex e) 2 x USB (Ex ia) (keyboard, pointing device)
Interface serial	1 x RS-232 (Ex e)
Interface audio	1 x Audio Line in / out (Ex e)
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	typically 50 W / 100 W at O30 / max. 150 W (typically 170 BTU / 341 BTU at O30 / max. 510 BTU)

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Electrical Data

Protection fuse AC	5 AT
Protection fuse DC	5 AT
Connection compartment	Power supply direct in integrated Ex e connection box
Connections	via screw 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
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	32 kg
Material front	Aluminium
Material back	Steel
Ingress protection	IP66
IP enclosure front	IP66

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Mechanical Data

IP enclosure back	IP65
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
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Components

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