

Operating and Monitoring Systems

KVM system SERIES 600

Device platform MANTA

OS MT-677-DVI3-MM

STAHL



- KVM Operator Station, 24" display, full HD 1920 x 1080
- Zone 2, 22 unit
- Optional resistive glass or foil touch screen
- Data transmission via multi-mode fibre optic up to 550 m

MY R. STAHL MANTAKVMO-SA



The OS MT-677-DVI3-MM operator stations with MANTA device platform are explosion-protected KVM systems for Zones 2, 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. The stainless steel enclosures (SS304 or SS316L) are available with a front opening in cleanroom-compliant design and with different mounting options. Configuration options include country-specific keyboards, pointer instruments, RFID readers and barcode readers. Data is transmitted via multi-mode fibre optic up to 550 m.

Technical Data

General

Series	MANTA KVM Operator Stations
Product description	24" KVM system
HMI type	Operator Station
Technology	Remote HMI KVM

Explosion Protection

Application range (zones)	2 22
Scope	EU (CE / ATEX) International (IECEX) China (CCC / CNEx) Australia (RCM)
IECEX certification	IECEX BVS 14.0034X
ATEX certification	BVS 12 ATEX E 033 X
CCC certification	2020312309000270
CNEx certification	CNEx14.2205X
DNV certification	TAA00000BK only devices with glass touchscreen, AC and O30
Notice certification	The certificates and explosion protection markings apply to a standard device combination with display, keyboard and enclosure. These may vary with further installations and extensions.
IECEX gas explosion protection	Ex nA nR [ia op is Ga] IIC T4 Gc
IECEX dust explosion protection	Ex tc IIIC [ia op is Da] IP66 T110°C Dc
ATEX gas explosion protection	II 3(1) G Ex nA nR [ia op is Ga] IIC T4 Gc
ATEX dust explosion protection	II 3(1) D Ex tc IIIC [ia op is Da] IP66 T110°C Dc
CNEx gas explosion protection	Ex nA nR [ia op is Ga] IIC T4 Gc
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Electrical Data

Power supply	230 VAC
Rated operational voltage AC	230 V
Voltage range AC	100 – 240 V
Frequency range	50 – 60 Hz
Power consumption AC 1	1 A
Protection fuse AC	5 AT
Rated operational power	typ. 50 W / 100 W at O30 / max. 150 W (typ. 170 BTU / 341 BTU at O30 / max. 510 BTU)
Transfer technology	KVM-DVI3
Operating system	independent
Language support	User menu: English
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 nA) 2 x USB (Ex ia) (keyboard, pointing device)
Interface serial	1 x RS-232 (Ex nA)
Interface reader note	RFID reader, support of the following standards: MIFARE Classic, DESFire, DESFire EV1, LEGIC prime and advant, NFC, INSIDE Secure, Sony FeliCa, ISO 14443A & 15693 1D/2D Barcode scanner: support of all common 1D/2D codes, wired or Bluetooth
Interface audio	1 x Audio Line in / out (Ex nA)
WLAN	optional via USB
Connection compartment	Power supply direct in integrated terminal box
Connections	via spring clamp terminals, green
Voltage output	12 VDC, max. 500 mA
Wiring	flexible cable up to 2.5 mm ² (AWG14) fixed cable up to 4 mm ² (AWG12)
Plug version FO	LC duplex socket
Max. input voltage U _m	250 VAC

Display

Display version	TFT Color display
Display version 2	16.7 million colours
Display size inch	24
Display size centimetres	61
Display resolution	1920 x 1080, 1680 x 1080, 1280 x 1024
Total pixels	1920 x 1080
Display dimensions	16:9
Display brightness	300 cd/m ²
Display contrast	1000:1
Display viewing angle horizontal	178°
Display viewing angle vertical	170°
Touchscreen	optional, resistive glass or foil touchscreen

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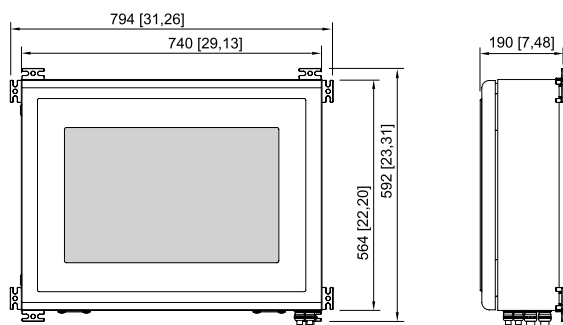
Display

Touchscreen technology	5-wire glass or foil touch
Touchscreen activation	Foil touch: low activation pressure (0.1 to max. 1 N) Glass touch: medium activation pressure (1.8 to max. 2.5 N)
Touchscreen input method	Finger, gloved finger or stylus
Touchscreen durability	Foil touch: polyester foil is easily scratched, with high pressure the spacer dots could be damaged Glass touch: Satisfactory, but glass is not hardened, with high pressure the spacer dots could be damaged
Touch screen scratch hardness MoHS	Foil touch: - Glass touch: >5
Touchscreen scratch hardness pencil test ISO15184	Foil touch: 3H Glass touch: 9H
Touchscreen transmissivity / optic	Foil touch: slightly milky effect due to foil Glass touch: very good
Touchscreen surface contaminants	unaffected
Touchscreen abrasive resistance	36 million activations with a silicone rubber finger R8, 250 g for 2 activations per second
Backlight	LED Technology
Backlight service life	50000 h at +20 °C
Front plate (display)	Aluminium and no touchscreen: glass foil touchscreen: polyester glass touchscreen: thin glass
Function keys	optional via keyboard with integrated trackball, joystick or touchpad
Softkeys	optional via keyboard with integrated trackball, joystick or touchpad
Cursor keys	optional via keyboard with integrated trackball, joystick or touchpad
Alphanumeric keys	optional via keyboard with integrated trackball, joystick or touchpad
System keys	optional via keyboard with integrated trackball, joystick or touchpad

Ambient Conditions

Ambient temperature operation	-20 °C ... +55 °C
Ambient temperature operation 1	-30 °C ... +55 °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 +55 °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.
Temperature note general	The temperature details apply to a standard device combination with display, keyboard and enclosure. Any additional built-in or added components may have an impact on / change these.
Relative humidity	10 to 90 % at +40 °C, non-condensing
Damp heat cyclic	+55 °C (±2 °C) ≥95 % (only device with glass touch (TG))
Vibration sinus	5 to 13.2 Hz: ±1 mm 13.2 to 100 Hz: ±0.7 g Change cycle 1 oct/min Axis X, Y, Z

OS MT-677-DVI3-MM



Operator Station FR enclosure, wall mounting

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