Operating and monitoring systems KVM system SERIES 600 Device platform MANTA OS MT-677-DVI3-SM



SAFE AREA



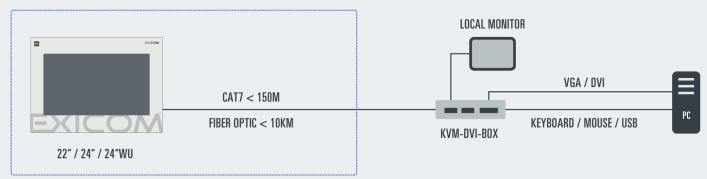
WebCode MT677A

- KVM Operator Station, 24" display, full HD 1920 x 1080
- Zone 2, 22 unit
- · Optional resistive glass or foil touch screen
- Data transmission via single mode fibre optic up to 10 km.

The OS MT-677-DVI3 HMI series includes KVM operator stations for hazardous zones 2 and 22. Their brilliant 24" widescreen displays with a resolution of 1920 x 1080 pixels (format 16:9), and are available with or without touch screen. The stainless steel enclosures (SS304 or SS316L) are available with a front opening or in cleanroom-compliant design and with different mounting options. 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



Technical Data

General		
Series	Product Series OS MT-677	
Product description	24" KVM system	
Technology	Remote HMI KVM	
HMI type	Operator station	
WebCode	MT677A	
Explosion Protection		
Application range (zones)	2	
	22	

Explosion Protection

Certifications

Ochtinodions	THEX, HOEX, ENO, ONEX
Certification IECEx	IECEx BVS 14.0034X
Certification ATEX	BVS 12 ATEX E 033 X
Certification EAC	ТС RU C-DE.ГБ04.В00478
Certification CNEX	CNEx14.2205X
Certification note	The certificates and explosion protection markings 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.
Gas explosion protection IECEx	Ex nA nR [ia op is Ga] IIC T4 Gc
Dust explosion protection IECEx	Ex tc IIIC [ia op is Da] IP66 T110°C Dc
Gas explosion protection ATEX	II 3(1) G Ex nA nR [ia op is Ga] IIC T4 Gc
Dust explosion protection ATEX	II 3(1) D Ex tc IIIC [ia op is Da] IP66 T110°C Dc
Gas explosion protection EAC	2Ex nA nR ia [ia op is Ga] IIC T4 Gc X
Dust explosion protection EAC	Ex tc ia IIIC [ia op is Da] IP66 T110°C Dc
Gas explosion protection CNEX	Ex nA nR [ia op is Ga] IIC T4 Gc
Dust explosion protection CNEX	Ex tc IIIC [ia op is Da] IP66 T110°C Dc
Electrical Data	
Power consumption AC 1	1A
Power consumption DC	3A
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

ATEX, IECEx, EAC, CNEX



STA	
JIA	

Display version 2 TFT Colour display Display version 2 16,7 million colours Display size inch 24 Display size inch 190 Display version 5 191 Display size centimetres 61 Display resolution Full HD Total pixels 1920 x 1080 Display dimensions 16:9 Display brightness 300 cd/m² Display contrast 1000:1 Touch screen Optional resistive Touch screen technology 5-wire glass or membrane touch Backlight LED Technology Backlight envice life 50000 h at +20 °C Front plate (display) Aluminium Ambient temperature operation -20 °C +55 °C with heater version 030 Storage temperature -30 °C +70 °C Cold start temperature -30 °C +70 °C Cold start temperature: If the HMI device is switched on at a temperature below -10 °C the display. Temperature note 2 Operating temperature: Temperature note 3 Cold start temperature: Temperature note 3 Cold start temperature: Temperature note 3	Display	
Display size centimetres 61 Display size centimetres 61 Display size centimetres 61 Display resolution Full HD Total pixels 1920 x 1080 Display dimensions 19:9 Display brightness 300 cd/m² Display brightness 300 cd/m² Display torightness 0ptional resistive Touch screen technology 5-wire glass or membrane touch Backlight service life 50000 h at +20 °C Front plate (display) Aluminium Ambient temperature operation -20 °C +55 °C Armbient temperature operation -30 °C +55 °C Vith heater version 030 Storage temperature -30 °C +55 °C Vith heater version 030 Storage temperature -30 °C +55 °C Vith heater version 0400 eversion devices 1 Temperature note 1 The 030 version is only available for the AC version devices 1 Temperature note 2 Operating temperature +56 °C to ra maximum of 5 h, for constant operation (247) +50 Temperature note 2 Operating temperature version 20 °C the display will need a certain amount of time to warm up until everything is clearly visible. Depending on how low for the temperature is, this proceas may lastu	Display version	TFT Colour display
Display size certimetres 61 Display resolution Full HD Total pixels 1920 x 1080 Display dimensions 16:9 Display dimensions 100:1 Touch screen Optional resistive Ambient temperature operation -30 °C -30 °C -+50 °C Cold start temperature ote1 The C30 version is only available for the AC version devices 1 <td>Display version 2</td> <td>16.7 million colours</td>	Display version 2	16.7 million colours
Display resolution Full HD Total pixels 1920 x 1080 Display dimensions 16:9 Display dimensions 16:9 Display dimensions 10:0:1 Touch screen Optional resistive Touch screen technology 5-wire glass or membrane touch Backlight LED Technology Backlight LED Technology Advertice 50:000 h at +20 °C Front plate (display) Aluminium Ambient Conditions - Ambient Conditions - Ambient Conditions - Cold start temperature operation -20 °C +55 °C Ambient temperature operation -20 °C +55 °C Ambient temperature -10 °C Temperature note 1 The 0:30 version is only available for the AC version devices ! Temperature note 2 Operating temperature: Operating temperature: in the Water of 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.	Display size inch	24
Total pixels 1920 x 1080 Display dimensions 16:9 Display dimensions 300 cd/m² Display contrast 1000:1 Touch screen Optional resistive Touch screen technology 5-wire glass or membrane touch Backlight LED Technology Backlight LED Technology Auminium Auminium Ambient temperature operation -20 °C +55 °C Annbient temperature operation -30 °C +55 °C Ambient temperature operation -30 °C +55 °C Cold start temperature -30 °C +70 °C Cold start temperature -10 °C Temperature note 1 The 030 version is only available for the AC version devices 1 Temperature note 2 Operating temperature: Operating temperature: 10 °C or a maximum of 5 h, for constant operation (24/7) +50 Temperature note 3 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 his 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. Material front Aluminium / stainless steel Material front	Display size centimetres	61
Display dimensions 16:9 Display dimensions 16:9 Display contrast 1000:1 Touch screen Optional resistive Touch screen Dotonal resistive Touch screen Dotonal resistive Touch screen Dotonal resistive Stakight LED Technology Backlight Soloo h at +20 °C Front plate (display) Aluminium Ambient Conditions -20 °C +55 °C Ambient temperature operation -30 °C +55 °C Ambient temperature operation -30 °C +55 °C Cold start temperature -30 °C +55 °C Temperature note 1 The O30 version is only available for the AC version devices ! Temperature note 1 The O30 version is only available for the AC version devices ! 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 (2477) +50 Temperature note 3 Cold start temperature is, this process may last up to 3 hours. Temperature note general The temperature dealis 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. Mechanical Data Imensions (WxHxD) Material front Aluminium /	Display resolution	Full HD
Display brightness 300 cd/m² Display contrast 1000:1 Touch screen Optional resistive Touch screen technology 5-wire glass or membrane touch Backlight LED Technology Backlight service life 50000 h at +20 °C Front plate (display) A luminium Ambient Conditions -20 °C +55 °C Ambient temperature operation -20 °C +75 °C Ambient temperature operation -30 °C +75 °C Ambient temperature operation -30 °C +70 °C Cold start temperature note 1 The 030 version is only available for the AC version devices I Temperature note 1 The 030 version is only available for the AC version devices I Temperature note 2 Operating temperature: If the HMI device is switched on at a temperature slow -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 3 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. Mechanical Data Dimensions (WxHxD) Dimensions (WxHxD) 740 mm x 872 mm x 400 mm Weight 58.5 kg Material front Aluminium / stainless steel Ingress pro	Total pixels	1920 x 1080
Display contrast 1000:1 Touch screen Optional resistive Touch screen Optional resistive Backlight LED Technology Backlight service life 50000 h at +20 °C Front plate (display) Aluminium Ambient Conditions -20 °C +55 °C Ambient temperature operation -20 °C +55 °C Ambient temperature operation -30 °C +55 °C Ambient temperature operation -30 °C +70 °C Cold start temperature -30 °C +70 °C Cold start temperature -10 °C Temperature note 1 The 030 version is only available for the AC version devices ! Temperature note 2 Operating temperature +5°C for a maximum of 5 h, for constant operation (24/7) +50 Temperature note 3 Cold start temperature +5°C for a maximum of 5 h, for constant operation (24/7) +50 Temperature note 3 Cold start temperature +5°C for a maximum of 5 h, for constant operation (24/7) +50 Temperature note 3 Cold start temperature +5°C for a maximum of 5 h, for constant operation (24/7) +50 Temperature note 3 Cold start temperature +5°C for a maximum of 5 h, for constant operation (24/7) +50 Temperature note 4 etenperature +5°C for a maximum of 5 h, for constant operation (24/7) +50 Temperature note 5 The temperature +5°C for a maximum of 5 h, for constant operatin extreme in the temperature	Display dimensions	16:9
Touch screen Optional resistive Touch screen technology 5-wire glass or membrane touch Backlight LED Technology Backlight service life 50000 h at +20 °C Front plate (display) Aluminium Ambient Conditions	Display brightness	300 cd/m ²
Touch screen technology 5-wire glass or membrane touch Backlight LED Technology Backlight service life 50000 h at +20 °C Front plate (display) Aluminium Ambient Conditions -20 °C +55 °C Ambient temperature operation -20 °C +55 °C Ambient temperature operation -30 °C +75 °C Cold start temperature operation -30 °C +77 °C Cold start temperature note 1 The O30 version is only available for the AC version devices 1 Temperature note 2 Operating 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. Mechanical Data Dimensions (WXHxD) Dimensions (WXHxD) 740 mm x 872 mm x 400 mm Weight 58.5 kg Material back Stainless steel Ingress protection IP66 Breather Optional Keyboard note With a keyboard with trackball, is moved.	Display contrast	1000:1
Backlight LED Technology Backlight service life 50000 h at +20 °C Front plate (display) Aluminum Ambient Conditions	Touch screen	Optional resistive
Backlight service life 50 000 h at +20 °C Front plate (display) Aluminium Ambient Conditions - Ambient temperature operation -20 °C +55 °C Ambient temperature operation 1 -30 °C +70 °C Cold start temperature -10 °C Temperature note 1 The 030 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 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. Mechanical Data Dimensions (WxHxD) Vieta 740 mm x 872 mm x 400 mm Weight 58.5 kg Material font Aluminium / stainless steel Ingress protection IP66 Breather optional Keyboard note With a keyboard with trackball, the operator station's ingress protection is reduced to I when the trackbal	Touch screen technology	5-wire glass or membrane touch
Front plate (display) Aluminium Ambient Conditions -20 °C +55 °C Ambient temperature operation -30 °C +55 °C Ambient temperature operation 1 -30 °C +55 °C 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 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. Mechanical Data Dimensions (WxHxD) Dimensions (WxHxD) 740 mm x 872 mm x 400 mm Weight 58.5 kg Material front Aluminium / stainless steel Ingress protection IP66 Breather optional Keyboard note With a keyboard with trackball, the operator station's ingress protection is reduced to II when the trackball is m	Backlight	LED Technology
Ambient Conditions -20 °C +55 °C Ambient temperature operation 1 -30 °C +55 °C Ambient temperature operation 1 -30 °C +55 °C Storage temperature -30 °C +70 °C Cold start temperature -10 °C Temperature note 1 The 030 version is only available for the AC version devices ! Temperature note 2 Operating 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. Mechanical Data Dimensions (WXHXD) Dimensions (WXHXD) 740 mm x 872 mm x 400 mm Weight 58.5 kg Material front Aluminium / stainless steel Ingress protection IP66 Breather optional Keyboard note With a keyboard with trackball, the operator station's ingress protection is reduced to II when the trackball is moved. Mechanical data note The mechanical data apply to an FR enclosure with display and keyboard. Other enclos ure types as well as any additional bui	Backlight service life	50 000 h at +20 °C
Ambient temperature operation -20 °C +55 °C Ambient temperature operation 1 -30 °C +70 °C Cold start temperature -10 °C Temperature note 1 The O30 version is only available for the AC version devices 1 Temperature note 2 Operating 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. Mechanical Data T40 mm x 872 mm x 400 mm Dimensions (WxHxD) 740 mm x 872 mm x 400 mm Weight 58.5 kg Material front Aluminium / stainless steel Ingress protection IP66 Breather optional Keyboard note With a keyboard with trackball, the operator station's ingress protection is reduced to II when the trackball is moved. Mechanical data note The mechanical data apply to an FR enclosure with display and keyboard. Other enclosure / change these. Mounting / Installation The mechanical data apply to an FR enclosure with display and keyboard. Other enclosure / change these. <td>Front plate (display)</td> <td>Aluminium</td>	Front plate (display)	Aluminium
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 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. Mechanical Data Dimensions (WxHxD) Dimensions (WxHxD) 740 mm x 872 mm x 400 mm Weight 58.5 kg Material front Aluminium / stainless steel Ingress protection IP66 Breather optional Keyboard note With a keyboard with trackball, the operator station's ingress protection is reduced to II when the trackball is moved. Mechanical data note The mechanical data apply to an FR enclosure with display and keyboard. Other enclo sure types as well as any additional built-in or added components may have an imp	Ambient Conditions	
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 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 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. Mechanical Data Dimensions (WxHxD) Dimensions (WxHxD) 740 mm x 872 mm x 400 mm Weight 58.5 kg Material front Aluminium / stainless steel Ingress protection IP66 Breather optional Keyboard note With a keyboard with trackball, the operator station's ingress protection is reduced to II when the trackball is moved. Mechanical data note The mechanical data apply to an FR enclosure with display and keyboard. Other enclo sure types as well as any additional built-in or added components may hav	Ambient temperature operation	-20 °C +55 °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 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. Mechanical Data Dimensions (WxHxD) Dimensions (WxHxD) 740 mm x 872 mm x 400 mm Weight 58.5 kg Material front Aluminium / stainless steel Ingress protection IP66 Breather optional Keyboard note With a keyboard with trackball, the operator station's ingress protection is reduced to II when the trackball is moved. Mechanical data note The mechanical data apply to an FR enclosure with display and keyboard. Other enclo sure types as well as any additional built-in or added components may have an impact / change these. Mounting / Installation Enclosure (FR) optional clean room (CFR) Mounting option Wall, elbow	· · · · · · · · · · · · · · · · · · ·	-30 °C +55 °C with heater version O30
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 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. Mechanical Data Dimensions (WxHxD) Dimensions (WxHxD) 740 mm x 872 mm x 400 mm Weight 58.5 kg Material front Aluminium / stainless steel Material back Stainless steel Ingress protection IP66 Breather optional Keyboard note With a keyboard with trackball, the operator station's ingress protection is reduced to II when the trackball is moved. Mechanical data note The mechanical data apply to an FR enclosure with display and keyboard. Other enclo sure types as well as any additional built-in or added components may have an impact / change these. Mounting / Installation Enclosure (FR) optional clean room (CFR) Mounting option Wall, elbow	Storage temperature	-30 °C +70 °C
Temperature note 2 Operating temperature +55 °C for a maximum of 5 h, for constant operation (24/7) +50 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. Mechanical Data Dimensions (WxHxD) Dimensions (WxHxD) 740 mm x 872 mm x 400 mm Weight 58.5 kg Material front Aluminium / stainless steel Material back Stainless steel Ingress protection IP66 Breather optional Keyboard note With a keyboard with trackball, the operator station's ingress protection is reduced to II when the trackball is moved. Mechanical data note The mechanical data apply to an FR enclosure with display and keyboard. Other enclosure type as well as any additional built-in or added components may have an impact / change these. Mounting / Installation Enclosure type Enclosure type Stainless steel enclosure (FR) optional clean room (CFR) Mounting option Wall, elbow, stand <td>Cold start temperature</td> <td>-10 °C</td>	Cold start temperature	-10 °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. Mechanical Data Dimensions (WxHxD) Dimensions (WxHxD) 740 mm x 872 mm x 400 mm Weight 58.5 kg Material front Aluminium / stainless steel Ingress protection IP66 Breather optional Keyboard note With a keyboard with trackball, the operator station's ingress protection is reduced to II when the trackball is moved. Mechanical data note The mechanical data apply to an FR enclosure with display and keyboard. Other enclo sure types as well as any additional built-in or added components may have an impact / change these. Mounting / Installation Enclosure (FR) Enclosure type Stainless steel enclosure (FR) optional clean room (CFR) Wall, elbow, stand	Temperature note 1	The O30 version is only available for the AC version devices !
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. Mechanical Data	Temperature note 2	Operating temperature +55 °C for a maximum of 5 h, for constant operation (24/7) +50 °C.
and enclosure. Any additional built-in or added components may have an impact on / change these. Mechanical Data Dimensions (WxHxD) 740 mm x 872 mm x 400 mm Weight 58.5 kg Material front Aluminium / stainless steel Material back Stainless steel Ingress protection IP66 Breather optional Keyboard note With a keyboard with trackball, the operator station's ingress protection is reduced to II when the trackball is moved. Mechanical data note The mechanical data apply to an FR enclosure with display and keyboard. Other enclosure types as well as any additional built-in or added components may have an impact / change these. Mounting / Installation Enclosure type Stainless steel enclosure (FR) optional clean room (CFR) Mounting option Wall, elbow, stand	Temperature note 3	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
Dimensions (WxHxD) 740 mm x 872 mm x 400 mm Weight 58.5 kg Material front Aluminium / stainless steel Material back Stainless steel Ingress protection IP66 Breather optional Keyboard note With a keyboard with trackball, the operator station's ingress protection is reduced to II when the trackball is moved. Mechanical data note The mechanical data apply to an FR enclosure with display and keyboard. Other enclo sure types as well as any additional built-in or added components may have an impact / change these. Mounting / Installation Stainless steel enclosure (FR) optional clean room (CFR) Mounting option Wall, elbow, stand	Temperature note general	
Weight 58.5 kg Material front Aluminium / stainless steel Material back Stainless steel Ingress protection IP66 Breather optional Keyboard note With a keyboard with trackball, the operator station's ingress protection is reduced to If when the trackball is moved. Mechanical data note The mechanical data apply to an FR enclosure with display and keyboard. Other enclo sure types as well as any additional built-in or added components may have an impact / change these. Mounting / Installation Enclosure type Stainless steel enclosure (FR) optional clean room (CFR) Mounting option Wall, elbow, stand	Mechanical Data	
Weight 58.5 kg Material front Aluminium / stainless steel Material back Stainless steel Ingress protection IP66 Breather optional Keyboard note With a keyboard with trackball, the operator station's ingress protection is reduced to If when the trackball is moved. Mechanical data note The mechanical data apply to an FR enclosure with display and keyboard. Other enclosure types as well as any additional built-in or added components may have an impact / change these. Mounting / Installation Enclosure type Stainless steel enclosure (FR) optional clean room (CFR) Mounting option Wall, elbow, stand	Dimensions (WxHxD)	740 mm x 872 mm x 400 mm
Material back Stainless steel Ingress protection IP66 Breather optional Keyboard note With a keyboard with trackball, the operator station's ingress protection is reduced to II when the trackball is moved. Mechanical data note The mechanical data apply to an FR enclosure with display and keyboard. Other enclosure types as well as any additional built-in or added components may have an impact / change these. Mounting / Installation Enclosure type Stainless steel enclosure (FR) optional clean room (CFR) Mounting option Wall, elbow, stand		58.5 kg
Ingress protection IP66 Breather optional Keyboard note With a keyboard with trackball, the operator station's ingress protection is reduced to If when the trackball is moved. Mechanical data note The mechanical data apply to an FR enclosure with display and keyboard. Other enclosure types as well as any additional built-in or added components may have an impact / change these. Mounting / Installation Enclosure type Stainless steel enclosure (FR) optional clean room (CFR) Mounting option Wall, elbow, stand	Material front	Aluminium / stainless steel
Breather optional Keyboard note With a keyboard with trackball, the operator station's ingress protection is reduced to II when the trackball is moved. Mechanical data note The mechanical data apply to an FR enclosure with display and keyboard. Other enclo sure types as well as any additional built-in or added components may have an impact / change these. Mounting / Installation Enclosure type Stainless steel enclosure (FR) optional clean room (CFR) Mounting option Wall, elbow, stand	Material back	Stainless steel
Keyboard note With a keyboard with trackball, the operator station's ingress protection is reduced to II when the trackball is moved. Mechanical data note The mechanical data apply to an FR enclosure with display and keyboard. Other enclosure types as well as any additional built-in or added components may have an impact / change these. Mounting / Installation Enclosure type Stainless steel enclosure (FR) optional clean room (CFR) Mounting option Wall, elbow, stand	Ingress protection	IP66
when the trackball is moved. Mechanical data note The mechanical data apply to an FR enclosure with display and keyboard. Other enclosure types as well as any additional built-in or added components may have an impact / change these. Mounting / Installation Enclosure type Stainless steel enclosure (FR) optional clean room (CFR) Mounting option Wall, elbow, stand	Breather	optional
sure types as well as any additional built-in or added components may have an impact / change these. Mounting / Installation Enclosure type Stainless steel enclosure (FR) optional clean room (CFR) Mounting option Wall, elbow, stand Components Image these	Keyboard note	With a keyboard with trackball, the operator station's ingress protection is reduced to IP54, when the trackball is moved.
Enclosure type Stainless steel enclosure (FR) optional clean room (CFR) Mounting option Wall, elbow, stand Components Image: Component state	Mechanical data note	The mechanical data apply to an FR enclosure with display and keyboard. Other enclo- sure types as well as any additional built-in or added components may have an impact on / change these.
optional clean room (CFR) Mounting option Wall, elbow, stand Components	Mounting / Installation	
Components	Enclosure type	
Components	Mounting option	Wall, elbow, stand
Keyboard optional, 107 keys with trackball / joystick / mouse / touchbad (Ex ia)	Keyboard	optional, 107 keys with trackball / joystick / mouse / touchpad (Ex ia)

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.

