Operating and monitoring systems

Thin Client SERIES 500 Device platform MANTA OS IT-587-FX



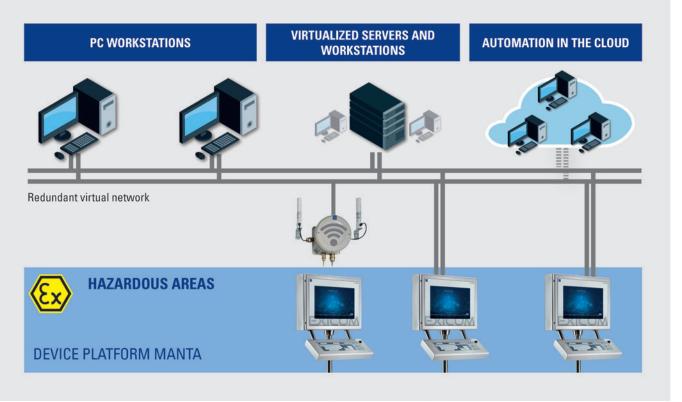


- Thin Client Operator Station, 24"WU display, 1920 x 1200
- Stainless steel enclosure IP66, optional acc. to GMP, for installation in safe areas
- · Optional resistive glass or foil touch screen

WebCode IT587A

The OS IT-587 HMI series includes Thin Client Operator Stations for safe areas. Their brilliant 24"WU widescreen displays with a resolution of 1920 x 1200 pixels (format 16:10), 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 Ethernet as 100Base-FX via multi-mode fibre optic up to 2 km.

THIN CLIENT INTEGRATION





Technical Data

SeriesOperator Station OS IT-S87 (discontinued)Product description24" Thin ClientProduct descriptionQerator StationWebCodeITS67AExplosion ProtectionITS67AApplication range (zones)Non-ExElectrical DataElectrical DataRated operational voltage DC24 VVoltage range AC100 – 240 VPower consumption DC3 APower consumption DC3 APower consumption DC3 AProtection fuse AC5 ATProtection fuse AC5 AT <th>General</th> <th></th>	General	
Technology Remote HMI Thin Client HMI type Operator Station WebCode ITS87A Explosion Protection Application range (zones) Non-Ex Electrical Data Rated operational voltage DC 24 V Voltage range DC 20 – 30 V Rated operational voltage AC 100 – 240 V Voltage range AC 100 – 240 V Power consumption DC 3 A Power consumption AC 1 1 A Protection fuse AC 5 AT Protection fuse AC 5 AT ST Protection fuse AC 5 AT Processor type ATOM W at O30 / max. 150 W (typ. 170 BTU / 341 BTU at O30 / max. 510 BTU) Processor type Processor type ATOM KE3845 Processor type AGM KE344 Processor type ATOM KE3845 Processor type AGM KE344 GB Data memory 64 GB Graphics Graphics Graphics controller integrated Intel Gen. 7 HD Graphics Graphics Graphics Memory technology SD solid state flash drive M.2 Operating system Graphics Graphics Graphics Graphics Graphics Graphics Graphics Graphics <td>Series</td> <td>Operator Station OS IT-587 (discontinued)</td>	Series	Operator Station OS IT-587 (discontinued)
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Real-time clock Yes Real-time clock data buffer Lithium battery and capacitor buffered, maintenance-free	Plug version USB	USB-A connector
Real-time clock data buffer Lithium battery and capacitor buffered, maintenance-free	Max. input voltage U _m	250 VAC
	Real-time clock	Yes
Battery buffered > 5 years	Real-time clock data buffer	Lithium battery and capacitor buffered, maintenance-free
	Battery buffered	> 5 years

Operating and monitoring systems Thin Client SERIES 500 Device platform MANTA OS IT-587-FX

STAH	L
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Capacitor buffered	at least 4 days
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
Display viewing angle horizontal	178° at CR ≥5
Display viewing angle vertical	170° at CR ≥5
Display	Glass
Touchscreen	optional, resistive
Touchscreen technology	5-wire glass or membrane touch
Touchscreen activation	Foil touch: low activation pressure (0.1 up to max. 1 N) Glass touch: medium activation pressure (1.8 up 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 force the spacer dots could be damaged.Glass touch: Quite good, but with high pressure force 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: small milky effect due to the foil Glass touch: very good
Touchscreen surface contaminants	unaffected
Touchscreen abrasive resistance	36 million times with a silicone rubber of R8 finger, hitting rate 250 g at 2 times per second
Backlight	LED Technology
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 +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.



Heat dissipation	about 40 % via the front plate and 60 % via the enclosure
· · ·	
Relative humidity	10 to 90 % at +40 °C, non-condensing
Mechanical Data	
Dimensions (WxHxD)	740 mm x 872 mm x 400 mm
Weight	42.5 kg
Material front	Aluminium / stainless steel
Material back	Stainless steel
Ingress protection	IP66
Breather	optional
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 or / change these.
Mounting / Installation	
Enclosure type	Stainless steel enclosure (FR) optional GMP / clean room (CFR)
Mounting option	Wall, elbow, stand
Components	
Keyboard	optional, 107 keys with trackball / joystick / mouse / touchpad

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.