



- MANTA Operator Station 24" as Panel PC or Thin Client
- Ethernet (1x / 2x) or fiber optic single mode / multi-mode
- For Zones 1, 21 / 2, 22 / Class I, Div 2 or safe areas
- ATEX, IECEx, EAC, NEC, CEC, PESO, KCS, CNEEx, CCC and RCM
- Temperature range: -20 °C ... +55 °C

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The MANTA operator stations are available as Panel PCs or Thin Clients, are fitted with quad core processors and have been certified for worldwide operation in Zones 1, 2, 21, 22 and Division 2. Data is transmitted via single / dual Ethernet (<100 m) or fibre optics (multi-mode <550 m, single mode <10 km). Their brilliant 24" 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 or in cleanroom-compliant design and with different mounting options. Accessories include country-specific keyboards, pointer instruments, RFID readers and barcode readers as well as different memory sizes (64 / 128 GB).

| Selection Table | | | | | | |
|---------------------|---------------------------|---------------------|---|---|----------|--------|
| HMI type Technology | Operator Station Panel PC | | | | | |
| Product Type | Application range (zones) | Product description | Interface medium | Data cable length | Art. No. | Weight |
| OS ET-477-2TX | 1 2 21 22 | 24" Panel PC | CAT7 Data transmission | 2x Max. 100 m | | - |
| OS ET-477-LX | 1 2 21 22 | 24" Panel PC | LX: single mode optical cable TX: CAT7 data transmission | LX: max. 10 km TX: max. 100 m | | - |
| OS ET-477-SX | 1 2 21 22 | 24" Panel PC | SX: multi-mode optical cable TX: CAT7 data transmission | SX: Max. 550 m for 50 µm or max. 275 m for 62,5 µm FO cable TX: Max. 100 m | | - |
| OS IT-477-FX | Non-Ex | 24" Panel PC | Multi-mode optical cable | Max. 2000 m | | - |
| OS IT-477-TX | Non-Ex | 24" Panel PC | CAT5 Data transmission | max. 100 m | | - |
| OS MT-477-2TX | 2 22 | 24" Panel PC | CAT7 Data transmission | 2x max. 100 m | | - |
| OS MT-477-LX | 2 22 | 24" Panel PC | LX: single mode optical cable TX: CAT7 data transmission | LX: max. 10 km TX: max. 100 m | | - |
| OS MT-477-SX | 2 22 | 24" Panel PC | SX: multi-mode optical cable TX: CAT7 data transmission | SX: Max. 550 m for 50 µm or max. 275 m for 62,5 µm FO cable TX: Max. 100 m | | - |

| Selection Table | | | | | | |
|---------------------|---------------------------|---|---|---|----------|--------|
| HMI type Technology | | Operator Station Remote HMI Thin Client | | | | |
| Product Type | Application range (zones) | Product description | Interface medium | Data cable length | Art. No. | Weight |
| OS ET-577-2TX | 1 2 21 22 | 24" Thin Client | CAT7 Data transmission | 2x max. 100 m | | - |
| OS ET-577-LX | 1 2 21 22 | 24" Thin Client | LX: single mode optical cable TX: CAT7 data transmission | LX: max. 10 km TX: max. 100 m | | - |
| OS ET-577-SX | 1 2 21 22 | 24" Thin Client | SX: multi-mode optical cable TX: CAT7 data transmission | SX: Max. 550 m for 50 µm or max. 275 m for 62,5 µm FO cable TX: Max. 100 m | | - |
| OS IT-577-FX | Non-Ex | 24" Thin Client | Multi-mode optical cable | Max. 2000 m | | - |
| OS IT-577-TX | Non-Ex | 24" Thin Client | CAT5 Data transmission | max. 100 m | | - |
| OS MT-577-2TX | 2 22 | 24" Thin Client | CAT7 Data transmission | 2x max. 100 m | | - |
| OS MT-577-LX | 2 22 | 24" Thin Client | LX: single mode optical cable TX: CAT7 data transmission | LX: max. 10 km TX: max. 100 m | | - |
| OS MT-577-SX | 2 22 | 24" Thin Client | SX: multi-mode optical cable TX: CAT7 data transmission | SX: Max. 550 m for 50 µm or max. 275 m for 62,5 µm FO cable TX: Max. 100 m | | - |

| Technical Data | | | |
|-------------------------------|---|---|-----------------------|
| Variant | OS ET-477-2TX | OS MT-477-2TX | OS IT-477-FX |
| Explosion Protection | | | |
| Application range (zones) | 1 2 21 22 | 2 22 | Non-Ex |
| Application range (divisions) | Class I, Division 2 | | |
| IECEX certification | IECEX BVS 11.0075X | IECEX BVS 14.0034X | |
| ATEX certification | BVS 11 ATEX E 102 X | BVS 12 ATEX E 033 X | |
| Scope | EU (CE / ATEX) International (IECEX) USA (NEC) Canada (CEC) China (CCC / CNEEx) Korea (KCS) India (PESO) Australia (RCM) | EU (CE / ATEX) International (IECEX) China (CCC / CNEEx) Australia (RCM) | |
| Electrical Data | | | |
| Rated operational voltage AC | 230 V | 230 V | 230 V |
| Rated operational voltage DC | 24 V | 24 V | 24 V |
| Ambient Conditions | | | |
| Ambient temperature operation | -20 °C ... +55 °C | -20 °C ... +55 °C | -20 °C ... +55 °C |
| Storage temperature | -30 °C ... +70 °C | -30 °C ... +70 °C | -30 °C ... +70 °C |
| Display | | | |
| Display size inch | 24 | 24 | 24 |
| Total pixels | 1920 x 1080 | 1920 x 1080 | 1920 x 1080 |
| Display version | TFT Color display | TFT Color display | TFT Color display |
| Display dimensions | 16:9 | 16:9 | 16:9 |
| Display brightness | 300 cd/m ² | 300 cd/m ² | 300 cd/m ² |
| Display contrast | 1000:1 | 1000:1 | 1000:1 |
| Backlight | LED Technology | LED Technology | LED Technology |

| Technical Data | | | |
|-------------------------|---|---|---|
| Variant | OS ET-477-2TX | OS MT-477-2TX | OS IT-477-FX |
| Mechanical Data | | | |
| Material front | Aluminium / stainless steel | Aluminium / stainless steel | Aluminium / stainless steel |
| Material back | Stainless steel | Stainless steel | Stainless steel |
| Ingress protection | IP66 | IP66 | IP66 |
| Mounting / Installation | | | |
| Enclosure type | Stainless steel enclosure (FR) optional clean room (CFR) | Stainless steel enclosure (FR) optional clean room (CFR) | Stainless steel enclosure (FR) optional clean room (CFR) |
| Mounting option | Wall, elbow, stand | Wall, elbow, stand | Wall, elbow, stand |
| Components | | | |
| Keyboard | optional, 105 keys with trackball / joystick / touchpad (Ex ia) | optional, 105 keys with trackball / joystick / touchpad (Ex ia) | optional, 105 keys with trackball / joystick / touchpad |