

"SIPLUS HMI MP 177 6"" for" medial exposure with conformal coating based on 6AV6642-0EA01- 3AX0

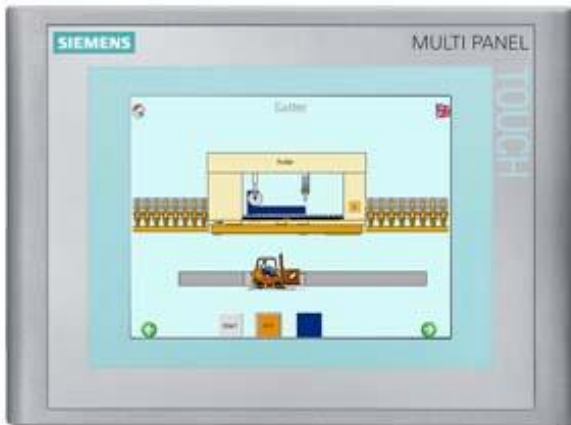


Figure similar

| General information | |
|---------------------------------|--------------|
| Product type designation | MP177 |
| Customer-specific configuration | Yes |
| Display | |
| Design of display | TFT |
| Screen diagonal | 5.7 in |
| Color display | Yes |
| Number of colors | 65 536 |
| Resolution (pixels) | |
| • Horizontal image resolution | 320 Pixel |
| • Vertical image resolution | 240 Pixel |
| Backlighting | |
| • MTBF backlighting (at 25 °C) | 50 000 h |
| Control elements | |
| Control elements | Touch screen |
| Keyboard fonts | |

| | |
|--|---|
| <ul style="list-style-type: none"> • Numeric keyboard | Yes; Onscreen keyboard |
| <ul style="list-style-type: none"> • alphanumeric keyboard | Yes; Onscreen keyboard |
| <ul style="list-style-type: none"> • hexadecimal keyboard | Yes; Onscreen keyboard |
| Touch operation | |
| <ul style="list-style-type: none"> • Design as touch screen | Yes; analog, resistive |
| Connection type | |
| <ul style="list-style-type: none"> • Type of connection for mouse/keyboard/barcode reader | USB / USB / USB |
| Installation type/mounting | |
| Mounting position | vertical |
| Supply voltage | |
| Type of supply voltage | DC |
| Processor | |
| Processor type | RISC 32 bit, 520 MHz |
| Memory | |
| Type of memory | Flash / RAM |
| Memory available for user data | 2 Mbyte |
| Capacity of main memory, max. | 128 Mbyte |
| Time of day | |
| Clock | |
| <ul style="list-style-type: none"> • Type | Hardware clock, battery backup, synchronizable |
| <ul style="list-style-type: none"> • retentive | Yes |
| <ul style="list-style-type: none"> • synchronizable | Yes |
| Interfaces | |
| Interfaces/bus type | 1x RS 422, 1x RS 485, 1x Ethernet (RJ45) (max. 12 Mbit/s) |
| Number of industrial Ethernet interfaces | 1 |
| Number of RS 485 interfaces | 1; together with RS 422 |
| Number of RS 422 interfaces | 1; together with RS 485 |
| Number of USB interfaces | 1 |
| Multimedia card/SD card slot | combined |
| Protocols | |
| PROFIBUS | Yes |
| MPI | Yes |
| Protocols (Ethernet) | |
| <ul style="list-style-type: none"> • TCP/IP | Yes |
| Protocols (terminal link) | |
| <ul style="list-style-type: none"> • Sm@rtServer | Yes |
| EMC | |
| Emission of radio interference acc. to EN 55 011 | |

- Limit class A, for use in industrial areas

Yes; EN 61000-6-4, interference emission: Intended for use in industrial areas.

Degree and class of protection

| | |
|-------------------|------|
| IP (at the front) | IP65 |
| IP (rear) | IP20 |

Standards, approvals, certificates

| | |
|-------------------------------------|----|
| Certifications | CE |
| cULus | No |
| Suitable for safety functions | No |
| Use in hazardous areas | |
| • ATEX Zone 2 | No |
| • ATEX Zone 22 | No |
| • FM Class I Division 2 | No |
| Marine approval | |
| • Germanischer Lloyd (GL) | No |
| • American Bureau of Shipping (ABS) | No |
| • Bureau Veritas (BV) | No |
| • Det Norske Veritas (DNV) | No |
| • Lloyds Register of Shipping (LRS) | No |
| • Nippon Kaiji Kyokai (Class NK) | No |
| • Polski Rejestr Statkow (PRS) | No |

Ambient conditions

| | |
|---|--|
| Ambient temperature during operation | |
| • min. | 0 °C |
| • max. | 50 °C |
| Ambient temperature during storage/transportation | |
| • min. | -20 °C |
| • max. | 60 °C |
| Altitude during operation relating to sea level | |
| • Ambient air temperature-barometric pressure-altitude | Tmin ... Tmax at 1 080 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax - 20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m) |
| Relative humidity | |
| • Operation, max. | 100 %; RH incl. condensation/frost permitted (no commissioning in bedewed state) |
| Resistance | |
| Use in stationary industrial systems | |
| — to biologically active substances according to EN 60721-3-3 | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request |
| — to chemically active substances according to EN 60721-3-3 | Yes; Class 3C4 incl. salt spray. The supplied connector covers must remain on the unused interfaces during operation! |

— to mechanically active substances according to EN 60721-3-3

Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!

Operating systems

| | |
|--------------------------------|------------------------|
| pre-installed operating system | Windows CE (Version 5) |
|--------------------------------|------------------------|

Configuration

| | |
|--|-----|
| Message indicator | Yes |
| Alarm system (incl. buffer and acknowledgment) | Yes |
| Process value display (output) | Yes |
| Process value default (input) possible | Yes |
| Recipe management | Yes |

Configuration software

- | | |
|--|--|
| <ul style="list-style-type: none"> • Configuration tool | WinCC flexible Compact Version 2008 SP1 or higher (to be ordered separately) |
|--|--|

Languages

Online languages

- | | |
|--|---|
| <ul style="list-style-type: none"> • Number of online/runtime languages | 5 |
|--|---|

Project languages

- | | |
|---|----|
| <ul style="list-style-type: none"> • Languages per project | 32 |
|---|----|

Functionality under WinCC (TIA Portal)

| | |
|--|-----|
| Libraries | Yes |
| Task planner | Yes |
| Help system | Yes |
| <ul style="list-style-type: none"> • Number of characters per info text | 70 |

Message system

- | | |
|--|-------|
| <ul style="list-style-type: none"> • Number of alarm classes | 32 |
| <ul style="list-style-type: none"> • Number of messages | 2 000 |
| <ul style="list-style-type: none"> • Bit messages | Yes |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> — Number of bit messages | 2 000 |
| <ul style="list-style-type: none"> • Analog messages | Yes |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> — Number of analog messages | 2 000 |
| <ul style="list-style-type: none"> • Telegram message procedure Alarm S | Yes |
| <ul style="list-style-type: none"> • System messages HMI | Yes |
| <ul style="list-style-type: none"> • System messages PLC | Yes |
| <ul style="list-style-type: none"> • System messages, other (SIMATIC S7, Sinumerik, Simotion, etc.) | Yes |
| <ul style="list-style-type: none"> • Lines | 1 |
| <ul style="list-style-type: none"> • Number of characters per message | 80 |
| <ul style="list-style-type: none"> • Number of process values per message | 8 |
| <ul style="list-style-type: none"> • Acknowledgment groups | |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> — Number of acknowledgement groups | Yes |
| <ul style="list-style-type: none"> • Message indicator | Yes |

| | |
|---|--|
| • First/last value | Yes |
| Recipe management | |
| • Number of recipes | 100 |
| • Data records per recipe | 200 |
| • Entries per data record | 200 |
| • Recipe memory | 32 KB integrated Flash, expandable |
| Variables | |
| • Number of variables per device | 1 000 |
| • Number of variables per screen | 50 |
| • Number of variables | 1 000 |
| • Type Date & Time | 1 000 |
| • Limit values | Yes |
| • Multiplexing | Yes |
| • Structures | No |
| Images | |
| • Number of configurable images | 500 |
| • Permanent window/default | Yes |
| • Start screen configurable | Yes |
| • Image selection by PLC | Yes |
| • Image number in the PLC | Yes |
| Image objects | |
| • Text objects | 2,500 text elements |
| • Number of I/O fields per image | 50 |
| • Number of date/time fields | 30 |
| • Return | Yes |
| • Graphics object | Bit maps, icons, vector graphics |
| — Icons | 500 |
| Complex image objects | |
| • Status/control | With SIMATIC S7 |
| • dynamic objects | Diagrams, bar graphs, sliders, analog display, invisible buttons |
| — Number of objects per project | 500 |
| — Number of curve diagrams per image | 5 |
| • Methods | Trend / profile |
| • Bar graphs | |
| — Number of bars per chart | 5 |
| • Sliders | |
| — Number of slides per image | 5 |
| • Pointer instruments | |
| — Number of analog indicators per image | 5 |
| • Limit value lines | Yes |
| • Number of alphanumerical fields | 1 000 |

| | |
|---|--|
| — alphanumeric fields per image | 50 |
| • Number of numerical fields | 1 000 |
| — numerical fields per image | 50 |
| • Number of password fields | 1 000 |
| • Number of visible switches per project | 1 000 |
| — visible switches per image | 100 |
| — hidden switches per image | 100 |
| • Number of status switches per project | 1 000 |
| — Number of status switches per image | 100 |
| • Number of selector switches per project | 200 |
| — Selector switches per image | 100 |
| • Number of signal lamps per project | 1 000 |
| — Signal lamps per image | 100 |
| Attributes for dynamic objects | |
| • Color change | Yes |
| • X/Y movement | Yes |
| • Hide | Yes |
| • Angle of rotation | No |
| Lists | |
| • Number of text lists per project | 300 |
| • Number of text lists per image | 10 |
| • Number of entries per text list | 30 |
| • Number of graphics lists per project | 100 |
| • Number of graphic lists per image | 10 |
| • Number of entries per graphics list | 30 |
| Security | |
| • Number of user groups | 50 |
| • Number of user rights | 32 |
| • Password export/import | Yes |
| Logging through printer | |
| • Recording/Printing | Alarms, report (shift report), color print, hardcopy |
| Transfer (upload/download) | |
| • Transfer of configuration | MPI/PROFIBUS DP, serial, USB, Ethernet, automatic transfer recognition |
| Process coupling | |
| • Connection to controller | S5, S7-200, S7-300/400, TI 505, Win AC, SINUMERIK, SIMOTION, Allen Bradley (DF1), Allen Bradley (DF485), Mitsubishi (FX), OMRON (LINK/Multilink), Modicon (Modbus), further non-Siemens drivers, see chapter "System interfaces" |
| • S7-200 | Yes |
| — PPI (point-to-point) | Yes |
| — PPI network | Yes |

| | |
|------------------------------|-----|
| — MPI | Yes |
| — PROFIBUS DP | Yes |
| — Ethernet | Yes |
| • S7-300/400 | Yes |
| — MPI | Yes |
| — PROFIBUS DP | Yes |
| — PROFINET | Yes |
| • S5 | Yes |
| — PROFIBUS DP | Yes |
| • TI 505 | Yes |
| • Allen Bradley (DF1) | Yes |
| • Allen Bradley (DF485) | Yes |
| • Mitsubishi (FX) | Yes |
| • Mitsubishi (MP4) | Yes |
| • Telemecanique (Uni-Telway) | Yes |
| • OMRON (LINK/Multilink) | Yes |
| • Modicon (Modbus) | Yes |
| • GE-Fanuc (SNP) | Yes |

Functions

| | |
|-------------------------|-----|
| • TAB sequence | Yes |
| • Calculating functions | Yes |
| • Animate | Yes |

Service tools/configuration aids

| | |
|---------------------------|-----|
| • Clean screen | Yes |
| • Touch calibration | Yes |
| • Backup/Restore manually | Yes |
| • Simulation | Yes |
| • Device switchover | Yes |

Peripherals/Options

| | |
|--|--------------------------------|
| Peripherals | Printer, barcode reader |
| • SIMATIC HMI MM memory card: Multi Media Card | Yes |
| • SIMATIC HMI SD memory card: Secure Digital memory card | Yes; WP gate is not supported. |
| • USB memory | Yes |
| Additional software components loadable | Yes |

Dimensions

| | |
|----------------------------|--------|
| Width of the housing front | 212 mm |
| Height of housing front | 156 mm |
| Overall depth | 45 mm |

Weights

| | |
|----------------------------|---------------|
| Weight (without packaging) | 0.85 kg; max. |
| Other | |
| free hotline | Yes |
| last modified: | 08/12/2019 |