



SIMATIC HMI MTP2200 Unified Comfort Panel hygienic, neutral design, IP69, stainless steel, hygienic design, 21.5" widescreen TFT display, 16 million colors, touch operation, blue FDA-compliant gasket, increased impact protection with splinter protection display front according to directives DIN EN 1672-2, FDA 21 CFR 177.2006, PROFINET interface, configurable as of WinCC Unified Comfort V17, contains open-source software, which is provided free of charge see enclosed Blu-Ray

| General information                                                   |                                  |
|-----------------------------------------------------------------------|----------------------------------|
| Product type designation                                              | MTP2200 Unified Comfort Hygienic |
| Display                                                               |                                  |
| Design of display                                                     | TFT                              |
| Screen diagonal                                                       | 21.5 in                          |
| Display width                                                         | 476 mm                           |
| Display height                                                        | 268 mm                           |
| Number of colors                                                      | 16 777 216                       |
| Resolution (pixels)                                                   |                                  |
| • Horizontal image resolution                                         | 1 920 pixel                      |
| • Vertical image resolution                                           | 1 080 pixel                      |
| Backlighting                                                          |                                  |
| • MTBF backlighting (at 25 °C)                                        | 30 000 h                         |
| • Backlight dimmable                                                  | Yes; 10 ... 100%                 |
| Control elements                                                      |                                  |
| Keyboard                                                              |                                  |
| • Numeric keyboard                                                    | Yes; Onscreen keyboard           |
| • alphanumeric keyboard                                               | Yes; Onscreen keyboard           |
| Touch operation                                                       |                                  |
| • Design as touch screen                                              | Yes                              |
| • Design as multi-touch screen                                        | Yes                              |
| • Monitor keyboard                                                    | Yes                              |
| Installation type/mounting                                            |                                  |
| Mounting position                                                     | Horizontal, vertical             |
| Mounting in portrait format possible                                  | Yes                              |
| Mounting in landscape format possible                                 | Yes                              |
| maximum permissible angle of inclination without external ventilation | 35°                              |
| Supply voltage                                                        |                                  |
| Type of supply voltage                                                | DC                               |
| Rated value (DC)                                                      | 24 V                             |
| permissible range, lower limit (DC)                                   | 19.2 V                           |
| permissible range, upper limit (DC)                                   | 28.8 V                           |
| Input current                                                         |                                  |
| Starting current inrush I <sup>2</sup> t                              | 0.5 A <sup>2</sup> ·s            |
| Storage                                                               |                                  |
| Flash                                                                 | Yes                              |
| RAM                                                                   | Yes                              |
| Type of output                                                        |                                  |

|                                                  |                                         |
|--------------------------------------------------|-----------------------------------------|
| Acoustics                                        |                                         |
| • Buzzer                                         | Yes                                     |
| • Speaker                                        | No                                      |
| <b>Time of day</b>                               |                                         |
| Clock                                            |                                         |
| • Hardware clock (real-time)                     | Yes                                     |
| • Software clock                                 | Yes                                     |
| • retentive                                      | Yes; Back-up duration typically 6 weeks |
| • synchronizable                                 | Yes                                     |
| <b>Interfaces</b>                                |                                         |
| Number of industrial Ethernet interfaces         | 2; 2 ports (switch) + independent port  |
| Number of RS 485 interfaces                      | 1; RS 422 / 485 combined                |
| Number of RS 422 interfaces                      | 0; together with RS 485                 |
| Number of USB interfaces                         | 4; USB 3.1 Gen. 1 (type A)              |
| Number of SD card slots                          | 2                                       |
| Industrial Ethernet                              |                                         |
| • Industrial Ethernet status LED                 | 2                                       |
| • Number of ports of the integrated switch       | 2                                       |
| <b>Protocols</b>                                 |                                         |
| PROFINET                                         | Yes                                     |
| Supports protocol for PROFINET IO                | No                                      |
| Protocols (Ethernet)                             |                                         |
| • TCP/IP                                         | Yes                                     |
| • DHCP                                           | Yes                                     |
| • SNMP                                           | Yes                                     |
| • DCP                                            | Yes                                     |
| • LLDP                                           | Yes                                     |
| WEB characteristics                              |                                         |
| • HTTP                                           | Yes                                     |
| • HTTPS                                          | Yes                                     |
| • HTML                                           | Yes                                     |
| • XML                                            | Yes                                     |
| • CSS                                            | Yes                                     |
| • JavaScript                                     | Yes                                     |
| Redundancy mode                                  |                                         |
| Media redundancy                                 |                                         |
| — MRP                                            | Yes                                     |
| <b>EMC</b>                                       |                                         |
| Emission of radio interference acc. to EN 55 011 |                                         |
| • Limit class A, for use in industrial areas     | Yes                                     |
| • Limit class B, for use in residential areas    | No                                      |
| <b>Degree and class of protection</b>            |                                         |
| IP (at the front)                                | IP69                                    |
| IP (rear)                                        | IP20                                    |
| NEMA (front)                                     |                                         |
| • Enclosure Type 4x at the front                 | No; in preparation                      |
| • Enclosure Type 12 at the front                 | No; in preparation                      |
| <b>Standards, approvals, certificates</b>        |                                         |
| CE mark                                          | Yes                                     |
| UKCA mark                                        | Yes                                     |
| cULus                                            | Yes                                     |
| RCM (formerly C-TICK)                            | Yes                                     |
| KC approval                                      | No; in preparation                      |
| EAC (formerly Gost-R)                            | Yes                                     |
| CCC                                              | No; in preparation                      |
| Use in hazardous areas                           |                                         |
| • ATEX Zone 2                                    | Yes                                     |
| • ATEX Zone 22                                   | Yes                                     |
| • IECEx Zone 2                                   | Yes                                     |

|                                                          |                       |
|----------------------------------------------------------|-----------------------|
| • IECEx Zone 22                                          | Yes                   |
| • cULus Class I Zone 2, Division 2                       | Yes                   |
| • cULus Class II Division 2                              | Yes                   |
| • FM Class I Division 2                                  | No                    |
| • FM Class II Division 2                                 | No                    |
| <b>Marine approval</b>                                   |                       |
| • Germanischer Lloyd (GL)                                | No                    |
| • American Bureau of Shipping (ABS)                      | No                    |
| • Bureau Veritas (BV)                                    | No                    |
| • Det Norske Veritas (DNV)                               | No                    |
| • Korean Register of Shipping (KRS)                      | No                    |
| • Lloyds Register of Shipping (LRS)                      | No                    |
| • Nippon Kaiji Kyokai (Class NK)                         | No                    |
| • Polski Rejestr Statkow (PRS)                           | No                    |
| • Chinese Classification Society (CCS)                   | No                    |
| <b>Ambient conditions</b>                                |                       |
| Suited for indoor use                                    | Yes                   |
| Suited for outdoor use                                   | No                    |
| <b>Ambient temperature during operation</b>              |                       |
| Operation (vertical installation)                        |                       |
| — For vertical installation, min.                        | 0 °C                  |
| — For vertical installation, max.                        | 45 °C                 |
| Operation (max. tilt angle)                              |                       |
| — At maximum tilt angle, min.                            | 0 °C                  |
| — At maximum tilt angle, max.                            | 40 °C                 |
| Operation (vertical installation, portrait format)       |                       |
| — For vertical installation, min.                        | 0 °C                  |
| — For vertical installation, max.                        | 40 °C                 |
| Operation (max. tilt angle, portrait format)             |                       |
| — At maximum tilt angle, min.                            | 0 °C                  |
| — At maximum tilt angle, max.                            | 35 °C                 |
| <b>Ambient temperature during storage/transportation</b> |                       |
| • min.                                                   | -20 °C                |
| • max.                                                   | 60 °C                 |
| <b>Relative humidity</b>                                 |                       |
| • Operation, max.                                        | 90 %; no condensation |
| <b>Operating systems</b>                                 |                       |
| proprietary                                              | Yes                   |
| <b>Configuration</b>                                     |                       |
| Message indicator                                        | Yes                   |
| Alarm system (incl. buffer and acknowledgment)           | Yes                   |
| Process value display (output)                           | Yes                   |
| Process value default (input) possible                   | Yes                   |
| Recipe management                                        | Yes                   |
| <b>Configuration software</b>                            |                       |
| • WinCC Unified Comfort Engineering (TIA Portal)         | Yes                   |
| • WinCC Unified PC Engineering (TIA Portal)              | Yes                   |
| <b>Languages</b>                                         |                       |
| <b>Online languages</b>                                  |                       |
| • Number of online/runtime languages                     | 32                    |
| <b>Project languages</b>                                 |                       |
| • Languages per project                                  | 32                    |
| <b>Functionality under WinCC Unified</b>                 |                       |
| Libraries                                                | Yes                   |
| <b>Applications/options</b>                              |                       |
| • Writer                                                 | Yes                   |
| • Calc                                                   | Yes                   |
| • Web browser                                            | Yes                   |
| • PDF Viewer                                             | Yes                   |

|                                                              |                                  |
|--------------------------------------------------------------|----------------------------------|
| • Media Player                                               | Yes                              |
| • SIMATIC WinCC Sm@rtServer                                  | Yes                              |
| • SIMATIC WinCC Audit                                        | No                               |
| • Unified Collaboration                                      | No                               |
| Number of Visual Basic Scripts                               | No                               |
| JavaScript                                                   | Yes                              |
| Task planner                                                 |                                  |
| • time-controlled                                            | Yes                              |
| • task-controlled                                            | Yes                              |
| Help system                                                  |                                  |
| • Number of characters per info text                         | 70                               |
| • Number of message texts per message                        | 10                               |
| Message system                                               |                                  |
| • Number of alarm classes                                    | 32                               |
| • Bit messages                                               |                                  |
| — Number of bit messages                                     | 9 000                            |
| • Analog messages                                            |                                  |
| — Number of analog messages                                  | 300                              |
| • S7 alarm number procedure                                  | Yes                              |
| • System messages HMI                                        | Yes                              |
| • System event, more (SIMATIC S7, SINUMERIK, SIMOTION, ... ) | Yes                              |
| • Number of characters per message                           | 512                              |
| • Number of process values per message                       | 10                               |
| • Acknowledgment groups                                      | Yes                              |
| • Message indicator                                          | Yes                              |
| • Message buffer                                             | Yes; Configured as alarm archive |
| — Circulating buffer                                         | Yes                              |
| — retentive                                                  | Yes                              |
| — maintenance-free                                           | Yes                              |
| Parameter set management (recipes)                           |                                  |
| • Number of parameter set types                              | 750                              |
| • Parameter sets per parameter set type                      | 2 000                            |
| • Entries per parameter set                                  | 1 000                            |
| • Size of internal parameter set memory                      | 12 Mbyte                         |
| • Parameter set memory expandable                            | Yes                              |
| Variables                                                    |                                  |
| • Number of variables per device                             | 8 000                            |
| • Number of variables per screen                             | 800                              |
| • Limit values                                               | Yes                              |
| • Structures                                                 | Yes                              |
| • Arrays                                                     | Yes                              |
| Images                                                       |                                  |
| • Number of configurable images                              | 1 200                            |
| • Faceplate                                                  | Yes                              |
| Image objects                                                |                                  |
| • Number of objects per image                                | 1 200                            |
| • Picture window                                             | Yes                              |
| • Text fields                                                | Yes                              |
| • I/O fields                                                 | Yes                              |
| • Graphic I/O fields (graphics list)                         | Yes                              |
| • Symbolic I/O fields (text list)                            | Yes                              |
| • Scalable Vector Graphics (SVG)                             | Yes                              |
| • Date/time fields                                           | Yes                              |
| • Checkbox                                                   | Yes                              |
| • Option button                                              | Yes                              |
| • Switches                                                   | Yes                              |
| • Buttons                                                    | Yes                              |
| • Graphic display                                            | Yes                              |

|                                        |                              |
|----------------------------------------|------------------------------|
| • Icons                                | Yes                          |
| • Custom web display                   | Yes                          |
| • Geometric objects                    | Yes                          |
| Complex image objects                  |                              |
| • Number of complex objects per screen | 80                           |
| • Alarm view                           | Yes                          |
| • Trend view                           | Yes                          |
| • User view                            | Yes                          |
| • Status/control                       | No                           |
| • Parameter set display                | Yes                          |
| • HTML browser                         | Yes                          |
| • Bar graphs                           | Yes                          |
| • Sliders                              | Yes                          |
| • Pointer instruments                  | Yes                          |
| • Analog/digital clock                 | Yes                          |
| Lists                                  |                              |
| • Number of text lists per project     | 750                          |
| • Number of entries per text list      | 750                          |
| • Number of graphics lists per project | 750                          |
| • Number of entries per graphics list  | 750                          |
| Archiving                              |                              |
| • Number of archives per device        | 50                           |
| • Number of entries per archive        | 500 000                      |
| • Message archive                      | Yes                          |
| • Process value archive                | Yes                          |
| • Archiving methods                    |                              |
| — Sequential archive                   | Yes                          |
| — Short-term archive                   | Yes                          |
| • Memory location                      |                              |
| — Memory card                          | Yes                          |
| — USB memory                           | Yes                          |
| — Ethernet                             | No                           |
| Security                               |                              |
| • Number of roles                      | 50                           |
| • Number of function rights            | 0; V16                       |
| • Number of users                      | 200                          |
| • Password export/import               | Yes                          |
| • Central user administration          | Yes; as of WinCC Unified V17 |
| Transfer (upload/download)             |                              |
| • USB                                  | No                           |
| • Ethernet                             | Yes                          |
| • using external storage medium        | Yes; as of WinCC Unified V17 |
| Process coupling                       |                              |
| • S7-1200                              | Yes                          |
| • S7-1500                              | Yes                          |
| • S7-200                               | Yes                          |
| • S7-300/400                           | Yes                          |
| • Number of S7 connections             | 16                           |
| • LOGO!                                | No                           |
| • SIMOTION                             | No                           |
| • OPC UA Client                        | Yes                          |
| • OPC UA Server                        | Yes                          |
| • Software Controller/Open Controller  | Yes                          |
| Service tools/configuration aids       |                              |
| • Backup/Restore manually              | Yes                          |
| • Backup/Restore automatically         | Yes                          |
| • Simulation                           | Yes                          |
| • Device switchover                    | Yes                          |
| Peripherals/Options                    |                              |

|                                                        |                         |
|--------------------------------------------------------|-------------------------|
| Peripherals                                            | Printer, barcode reader |
| Printer                                                | Yes                     |
| SIMATIC HMI MM memory card: Multi Media Card           | No                      |
| SIMATIC HMI SD memory card: Secure Digital memory card | Yes                     |
| SIMATIC HMI CF memory card Compact Flash Card          | No                      |
| USB memory                                             | Yes                     |
| SIMATIC IPC USB Flashdrive (USB stick)                 | Yes                     |
| SIMATIC HMI USB stick                                  | Yes                     |
| Network camera                                         | No                      |

#### Accessories

|                                   |                                 |
|-----------------------------------|---------------------------------|
| Further accessories are available | No; Service Pack available soon |
|-----------------------------------|---------------------------------|

#### Mechanics/material

|                            |                              |
|----------------------------|------------------------------|
| Enclosure material (front) |                              |
| • Plastic                  | Yes; shatter protection film |
| • Stainless steel          | Yes                          |

#### Dimensions

|                            |        |
|----------------------------|--------|
| Width of the housing front | 556 mm |
| Height of housing front    | 358 mm |
| Mounting cutout, width     | 513 mm |
| Mounting cutout, height    | 315 mm |
| mounting depth             | 79 mm  |

#### Weights

|                            |         |
|----------------------------|---------|
| Weight (without packaging) | 8.15 kg |
|----------------------------|---------|

#### Classifications

|  |        | Version | Classification |
|--|--------|---------|----------------|
|  | eClass | 16      | 27-33-02-01    |
|  | eClass | 14      | 27-33-02-01    |
|  | eClass | 12      | 27-33-02-01    |
|  | eClass | 9.1     | 27-33-02-01    |
|  | eClass | 9       | 27-33-02-01    |
|  | eClass | 8       | 27-24-23-02    |
|  | eClass | 7.1     | 27-24-23-02    |
|  | eClass | 6       | 27-24-23-02    |
|  | ETIM   | 10      | EC001412       |
|  | ETIM   | 9       | EC001412       |
|  | ETIM   | 8       | EC001412       |
|  | ETIM   | 7       | EC001412       |

#### Approvals / Certificates

##### General Product Approval



[Miscellaneous](#)



[China RoHS](#)

##### General Product Approval

EMV



##### EMV

For use in hazardous locations



[CCC-Ex](#)



other

Food, Pharmaceutical, Medical



[Miscellaneous](#)

[Special Test Certificate](#)

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