



SIMATIC HMI MTP1500 PRO, for support arm (not expandable, flange on top), 15.6" widescreen TFT display, 16 million colors, PROFINET interface, configurable as of WinCC Unified Comfort V18, contains open-source software, which is provided free of charge

| General information                                                   |                             |
|-----------------------------------------------------------------------|-----------------------------|
| Product type designation                                              | MTP1500 Unified Comfort PRO |
| Display                                                               |                             |
| Design of display                                                     | TFT                         |
| Screen diagonal                                                       | 15.6 in                     |
| Display width                                                         | 344.2 mm                    |
| Display height                                                        | 193.5 mm                    |
| Number of colors                                                      | 16 777 216                  |
| Resolution (pixels)                                                   |                             |
| • Horizontal image resolution                                         | 1 366 pixel                 |
| • Vertical image resolution                                           | 768 pixel                   |
| Backlighting                                                          |                             |
| • MTBF backlighting (at 25 °C)                                        | 50 000 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                         |
| Installation type/mounting                                            |                             |
| Mounting                                                              | Support arm                 |
| Mounting position                                                     | vertical                    |
| Mounting in portrait format possible                                  | No                          |
| 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                                                         |                             |
| Current consumption (rated value)                                     | 0.7 A                       |
| Current consumption, max.                                             | 1.3 A                       |
| Starting current inrush I <sup>2</sup> t                              | 0.5 A <sup>2</sup> ·s       |
| Power                                                                 |                             |
| Active power input, typ.                                              | 16.8 W                      |

|                                                         |                                         |
|---------------------------------------------------------|-----------------------------------------|
| <b>Processor</b>                                        |                                         |
| Processor type                                          | X86                                     |
| <b>Storage</b>                                          |                                         |
| Flash                                                   | Yes                                     |
| RAM                                                     | Yes                                     |
| <b>Type of output</b>                                   |                                         |
| Info LED                                                | No                                      |
| Power LED                                               | No                                      |
| Error LED                                               | No                                      |
| Acoustics                                               |                                         |
| • Buzzer                                                | Yes                                     |
| • Speaker                                               | No                                      |
| <b>Time of day</b>                                      |                                         |
| <b>Clock</b>                                            |                                         |
| • 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                                       |
| <b>Industrial Ethernet</b>                              |                                         |
| • Industrial Ethernet status LED                        | 2                                       |
| • Number of ports of the integrated switch              | 2                                       |
| <b>Protocols</b>                                        |                                         |
| PROFINET                                                | Yes                                     |
| PROFINET IO                                             | No                                      |
| <b>Protocols (Ethernet)</b>                             |                                         |
| • TCP/IP                                                | Yes                                     |
| • DHCP                                                  | Yes                                     |
| • SNMP                                                  | Yes                                     |
| • DCP                                                   | Yes                                     |
| • LLDP                                                  | Yes                                     |
| <b>Redundancy mode</b>                                  |                                         |
| <b>Media redundancy</b>                                 |                                         |
| — MRP                                                   | Yes                                     |
| <b>Further protocols</b>                                |                                         |
| • CAN                                                   | No                                      |
| <b>EMC</b>                                              |                                         |
| <b>Emission of radio interference acc. to EN 55 011</b> |                                         |
| • 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)                                       | IP65                                    |
| IP (rear)                                               | IP65                                    |
| NEMA (front)                                            |                                         |
| • Enclosure Type 4 at the front                         | Yes                                     |
| • Enclosure Type 4x at the front                        | Yes                                     |
| • Enclosure Type 12 at the front                        | Yes                                     |
| <b>Standards, approvals, certificates</b>               |                                         |
| CE mark                                                 | Yes                                     |
| UKCA mark                                               | Yes                                     |
| cULus                                                   | Yes                                     |
| FM approval                                             | Yes                                     |
| RCM (formerly C-TICK)                                   | Yes                                     |

|                                                   |                       |
|---------------------------------------------------|-----------------------|
| KC approval                                       | Yes                   |
| EAC (formerly Gost-R)                             | Yes                   |
| CCC                                               | Yes                   |
| 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                       | No                    |
| • FM Class I Division 2                           | Yes                   |
| • FM Class II Division 2                          | No                    |
| Marine approval                                   |                       |
| • 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                    |
| Ambient conditions                                |                       |
| Ambient temperature during operation              |                       |
| 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                 |
| Ambient temperature during storage/transportation |                       |
| • min.                                            | -20 °C                |
| • max.                                            | 60 °C                 |
| Relative humidity                                 |                       |
| • Operation, max.                                 | 90 %; no condensation |
| Operating systems                                 |                       |
| proprietary                                       | Yes                   |
| 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                            |                       |
| • STEP 7 Basic (TIA Portal)                       | No                    |
| • STEP 7 Professional (TIA Portal)                | No                    |
| • WinCC flexible Compact                          | No                    |
| • WinCC flexible Standard                         | No                    |
| • WinCC flexible Advanced                         | No                    |
| • WinCC Basic (TIA Portal)                        | No                    |
| • WinCC Comfort (TIA Portal)                      | No                    |
| • WinCC Advanced (TIA Portal)                     | No                    |
| • WinCC Professional (TIA Portal)                 | No                    |
| • WinCC Unified Basic Engineering (TIA Portal)    | No                    |
| • WinCC Unified Comfort Engineering (TIA Portal)  | Yes; V18 or higher    |
| • WinCC Unified PC Engineering (TIA Portal)       | Yes; V18 or higher    |
| Languages                                         |                       |
| Online languages                                  |                       |
| • Number of online/runtime languages              | 32                    |

|                                                              |                                  |
|--------------------------------------------------------------|----------------------------------|
| Project languages                                            |                                  |
| • Languages per project                                      | 32                               |
| Functionality under WinCC Unified                            |                                  |
| Libraries                                                    | Yes                              |
| Applications/options                                         |                                  |
| • Writer                                                     | Yes                              |
| • Calc                                                       | Yes                              |
| • Web browser                                                | Yes                              |
| • PDF Viewer                                                 | Yes                              |
| • Media Player                                               | Yes                              |
| • SIMATIC WinCC Sm@rtServer                                  | Yes                              |
| • SIMATIC WinCC Audit                                        | Yes                              |
| • Unified Collaboration                                      | Yes                              |
| 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                                          | No                               |
| • 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                       | Yes                                      |
| • 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            | 20; number of predefined function rights |
| • Number of users                      | 200                                      |
| • Password export/import               | Yes                                      |
| • Central user administration          | Yes                                      |
| Transfer (upload/download)             |                                          |
| • USB                                  | No                                       |
| • Ethernet                             | Yes                                      |
| • using external storage medium        | Yes                                      |
| Process coupling                       |                                          |
| • S7-1200                              | Yes                                      |
| • S7-1500                              | Yes                                      |
| • S7-200                               | No                                       |
| • 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 |
| <b>Service tools/configuration aids</b> |     |
| • Backup/Restore manually               | Yes |
| • Backup/Restore automatically          | Yes |
| • Simulation                            | Yes |
| • Device switchover                     | Yes |

|                                                        |                         |
|--------------------------------------------------------|-------------------------|
| <b>Peripherals/Options</b>                             |                         |
| 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                                         | Yes                     |

|                            |     |
|----------------------------|-----|
| <b>Mechanics/material</b>  |     |
| Enclosure material (front) |     |
| • Plastic                  | No  |
| • Aluminum                 | Yes |
| • Stainless steel          | No  |

|                            |                               |
|----------------------------|-------------------------------|
| <b>Dimensions</b>          |                               |
| Width of the housing front | 396 mm                        |
| Height of housing front    | 255 mm; Without basic adapter |

|                            |        |
|----------------------------|--------|
| <b>Weights</b>             |        |
| Weight (without packaging) | 6.1 kg |

|                        |        |                |                       |
|------------------------|--------|----------------|-----------------------|
| <b>Classifications</b> |        |                |                       |
|                        |        | <b>Version</b> | <b>Classification</b> |
|                        | 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              |

|                                 |  |
|---------------------------------|--|
| <b>Approvals / Certificates</b> |  |
| <b>General Product Approval</b> |  |



[Miscellaneous](#)



|                                 |                            |                                       |                        |
|---------------------------------|----------------------------|---------------------------------------|------------------------|
| <b>General Product Approval</b> |                            | <b>For use in hazardous locations</b> |                        |
|                                 | <a href="#">China RoHS</a> |                                       |                        |
|                                 |                            |                                       | <a href="#">CCC-Ex</a> |
|                                 |                            |                                       |                        |

For use in hazardous locations



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