



SIMATIC HMI MTP1200, Unified Comfort Panel, neutral, touch operation, 12.1" widescreen TFT display, 16 million colors, PROFINET interface, configurable as of WinCC Unified Comfort V16, contains open-source software, which is provided free of charge see enclosed DVD

General information	
Product type designation	MTP1200 Unified Comfort
Display	
Design of display	TFT
Screen diagonal	12.1 in
Display width	261.1 mm
Display height	163.2 mm
Number of colors	16 777 216
Resolution (pixels)	
• Horizontal image resolution	1 280 pixel
• Vertical image resolution	800 pixel
Backlighting	
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C
• Backlight dimmable	Yes; 5-100 %
Control elements	
Keyboard fonts	
• 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 position	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	
Current consumption (rated value)	0.6 A
Current consumption, max.	1.3 A
Starting current inrush I <sub>st</sub>	0.5 A <sup>2</sup> ·s
Memory	
Flash	Yes
RAM	Yes
Type of output	

Acoustics	
<ul style="list-style-type: none"> <li>• Buzzer</li> <li>• Speaker</li> </ul>	<p>Yes</p> <p>No</p>
<b>Time of day</b>	
Clock	
<ul style="list-style-type: none"> <li>• Hardware clock (real-time)</li> <li>• Software clock</li> <li>• retentive</li> <li>• synchronizable</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes; Back-up duration typically 6 weeks</p> <p>Yes</p>
<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>	
<ul style="list-style-type: none"> <li>• Industrial Ethernet status LED</li> <li>• Number of ports of the integrated switch</li> </ul>	<p>2</p> <p>2</p>
<b>Protocols</b>	
PROFINET	Yes
Supports protocol for PROFINET IO	No
<b>Protocols (Ethernet)</b>	
<ul style="list-style-type: none"> <li>• TCP/IP</li> <li>• DHCP</li> <li>• SNMP</li> <li>• DCP</li> <li>• LLDP</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
<b>Redundancy mode</b>	
Media redundancy	
— MRP	Yes
<b>EMC</b>	
Emission of radio interference acc. to EN 55 011	
<ul style="list-style-type: none"> <li>• Limit class A, for use in industrial areas</li> <li>• Limit class B, for use in residential areas</li> </ul>	<p>Yes</p> <p>No</p>
<b>Degree and class of protection</b>	
IP (at the front)	IP65
IP (rear)	IP20
NEMA (front)	
<ul style="list-style-type: none"> <li>• Enclosure Type 4x at the front</li> <li>• Enclosure Type 12 at the front</li> </ul>	<p>Yes</p> <p>No</p>
<b>Standards, approvals, certificates</b>	
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
CCC	Yes
<b>Use in hazardous areas</b>	
<ul style="list-style-type: none"> <li>• ATEX Zone 2</li> <li>• ATEX Zone 22</li> <li>• IECEx Zone 2</li> <li>• IECEx Zone 22</li> <li>• cULus Class I Zone 2, Division 2</li> <li>• cULus Class II Division 2</li> <li>• FM Class I Division 2</li> <li>• FM Class II Division 2</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No; Available soon</p> <p>No</p>
<b>Marine approval</b>	
<ul style="list-style-type: none"> <li>• Germanischer Lloyd (GL)</li> <li>• American Bureau of Shipping (ABS)</li> <li>• Bureau Veritas (BV)</li> <li>• Det Norske Veritas (DNV)</li> <li>• Korean Register of Shipping (KRS)</li> </ul>	<p>No; included in DNV</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>

• Lloyds Register of Shipping (LRS)	Yes
• Nippon Kaiji Kyokai (Class NK)	Yes
• Chinese Classification Society (CCS)	Yes

#### Ambient conditions

Suited for indoor use	Yes
Suited for outdoor use	No

#### Ambient temperature during operation

##### Operation (vertical installation)

— For vertical installation, min.	0 °C
— For vertical installation, max.	50 °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

#### Ambient temperature during storage/transportation

• min.	-20 °C
• max.	60 °C

#### Relative humidity

• Operation, max.	90 %; no condensation
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#### Operating systems

proprietary	Yes
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#### configuration / header

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

• WinCC Unified Comfort Engineering (TIA Portal)	Yes
• WinCC Unified PC Engineering (TIA Portal)	Yes

#### Languages

##### Online languages

• Number of online/runtime languages	32
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##### Project languages

• Languages per project	32
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#### Functionality under WinCC Unified

Libraries	Yes
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##### Applications/options

• Writer	Yes
• Web browser	Yes
• Media Player	Yes
• SIMATIC WinCC Sm@rtServer	Yes
• SIMATIC WinCC Audit	Yes
• Unified Collaboration	Yes

##### 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

#### functionality under WinCC Unified / alarm system / header

• 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 messages, other (SIMATIC S7, Sinumerik, Simotion, etc.)	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
<b>Parameter set management (recipes)</b>	
• Number of parameter set types	750
• Parameter sets per parameter set type	2 000
• Entries per parameter set	1 000
• Parameter set memory expandable	Yes
<b>functionality under WinCC Unified / variables / header</b>	
• Number of variables per device	8 000
• Number of variables per screen	600
• Limit values	Yes
• Structures	Yes
• Arrays	Yes
<b>Funktionalität unter WinCC Unified / Bilder / Überschrift</b>	
• Number of configurable images	1 200
• Faceplate	Yes
<b>Image objects</b>	
• Number of objects per image	800
• 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
<b>functionality under WinCC Unified / complex screen objects / header</b>	
• Number of complex objects per screen	40
• 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
<b>functionality under WinCC Unified / lists / header</b>	
• 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
<b>functionality under WinCC Unified / archiving / header</b>	
• Number of archives per device	50
• Number of entries per archive	500 000
• Message archive	Yes
• Process value archive	Yes

<ul style="list-style-type: none"> <li>• type of archiving / for WinCC Unified <ul style="list-style-type: none"> <li>— Sequential archive</li> <li>— Short-term archive</li> </ul> </li> <li>• storage location / of archiving / for WinCC Unified <ul style="list-style-type: none"> <li>— Memory card</li> <li>— storage location / of archiving / for WinCC Unified / USB mass storage</li> <li>— Ethernet</li> </ul> </li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p>
<b>Security</b>	
<ul style="list-style-type: none"> <li>• Number of roles</li> <li>• Number of function rights</li> <li>• Number of users</li> <li>• Password export/import</li> <li>• Central user administration</li> </ul>	<p>50</p> <p>0; V16</p> <p>200</p> <p>Yes</p> <p>Yes; as of WinCC V17</p>
<b>functionality under WinCC Unified / transfer (upload/download) / header</b>	
<ul style="list-style-type: none"> <li>• USB</li> <li>• Ethernet</li> <li>• using external storage medium</li> </ul>	<p>No</p> <p>Yes</p> <p>Yes; as of WinCC Unified V17</p>
<b>Process coupling</b>	
<ul style="list-style-type: none"> <li>• S7-1200</li> <li>• S7-1500</li> <li>• S7-200</li> <li>• S7-300/400</li> <li>• Number of S7 connections</li> <li>• LOGO!</li> <li>• SIMOTION</li> <li>• OPC UA Client</li> <li>• OPC UA Server</li> <li>• Software Controller/Open Controller</li> </ul>	<p>Yes</p> <p>Yes</p> <p>No</p> <p>Yes</p> <p>16</p> <p>No</p> <p>No</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
<b>functionality under WinCC Unified / service tools/configuration tools / header</b>	
<ul style="list-style-type: none"> <li>• Backup/Restore manually</li> <li>• Backup/Restore automatically</li> <li>• Simulation</li> <li>• Device switchover</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
<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	No
<b>Mechanics/material</b>	
Enclosure material (front) <ul style="list-style-type: none"> <li>• Aluminum</li> </ul>	<p>Yes</p>
<b>Dimensions</b>	
Width of the housing front	326 mm
Height of housing front	237 mm
Mounting cutout, width	310 mm
Mounting cutout, height	221 mm
Overall depth	64 mm
<b>Weights</b>	
Weight (without packaging)	2.8 kg
<b>last modified:</b>	1/13/2023 