

SIMATIC HMI MTP1200 PRO, for support arm (not expandable, flange on top), 12.1" 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	MTP1200 Unified Comfort PRO
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
• 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	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)	0.6 A
Current consumption, max.	1.3 A
Starting current inrush I ² t	0.5 A ² ·s
Power	
Active power input, typ.	14.4 W
Processor	

Processor type	X86
Memory	
Flash	Yes
RAM	Yes
Type of output	
Info LED	No
Power LED	No
Error LED	No
Acoustics	
• Buzzer	Yes
• Speaker	No
Time of day	
Clock	
• Hardware clock (real-time)	Yes
• Software clock	Yes
• retentive	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes
Interfaces	
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
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	No
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
Redundancy mode	
Media redundancy	
— MRP	Yes
Further protocols	
• CAN	No
EMC	
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
Degree and class of protection	
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
Standards, approvals, certificates	
CE mark	Yes
UKCA mark	Yes
cULus	Yes
FM approval	No; in preparation
RCM (formerly C-TICK)	Yes
KC approval	No; in preparation
EAC (formerly Gost-R)	No; in preparation
CCC	No; in preparation

Use in hazardous areas	
• ATEX Zone 2	No; in preparation
• ATEX Zone 22	No; in preparation
• IECEx Zone 2	No; in preparation
• IECEx Zone 22	No; in preparation
• cULus Class I Zone 2, Division 2	No; in preparation
• cULus Class II Division 2	No
• FM Class I Division 2	No; in preparation
• 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 / 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	
• 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
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 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
functionality under WinCC Unified / variables / header	
• Number of variables per device	8 000
• Number of variables per screen	600
• Limit values	Yes
• Structures	Yes
• Arrays	Yes
functionality under WinCC Unified / screens / header	
• Number of configurable images	1 200
• Faceplate	Yes
Image objects	
• 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

functionality under WinCC Unified / complex screen objects / header

- 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

functionality under WinCC Unified / lists / header

- 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

functionality under WinCC Unified / archiving / header

- Number of archives per device 50
- Number of entries per archive 500 000
- Message archive Yes
- Process value archive Yes
- type of archiving / for WinCC Unified
 - Sequential archive Yes
 - Short-term archive Yes
- storage location / of archiving / for WinCC Unified
 - 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

functionality under WinCC Unified / transfer (upload/download) / header

- 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

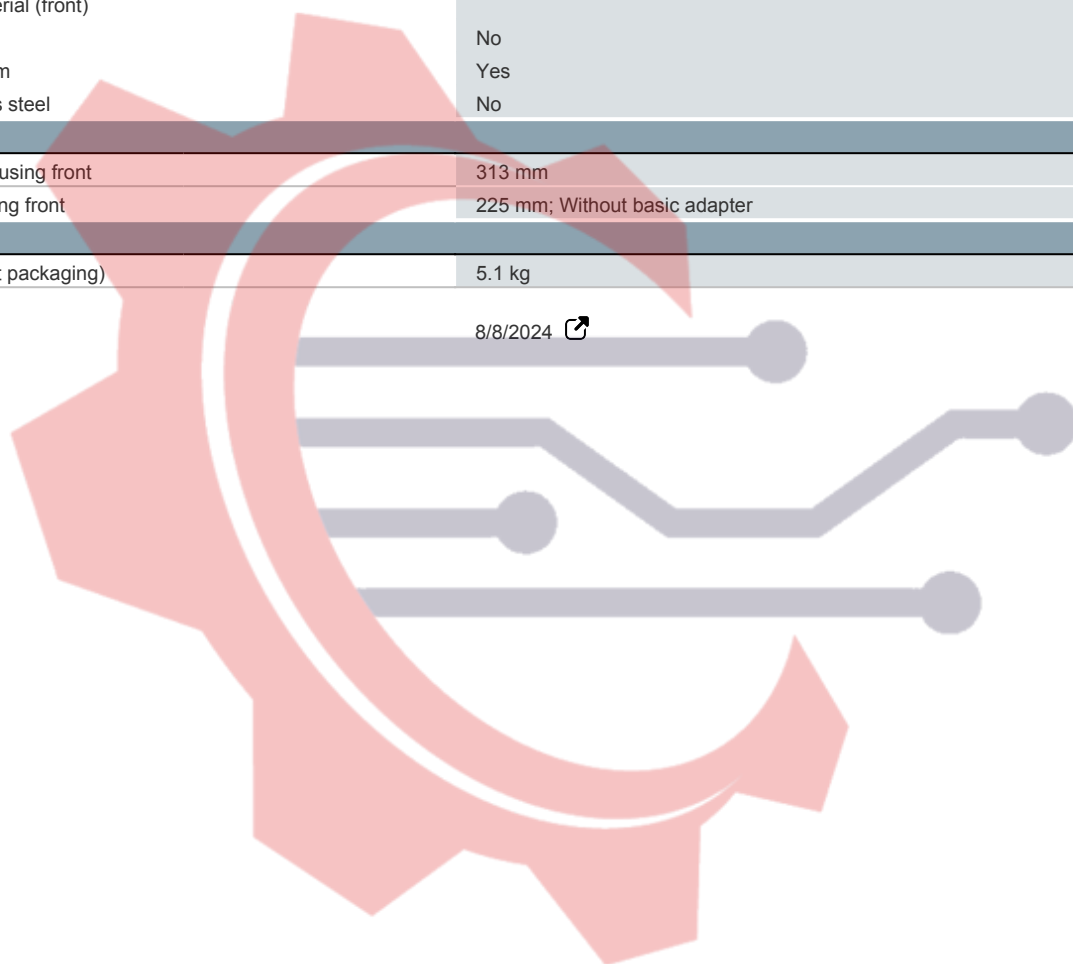
functionality under WinCC Unified / service tools/configuration tools / header

- 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	Yes
Mechanics/material	
Enclosure material (front)	
<ul style="list-style-type: none"> • Plastic • Aluminum • Stainless steel 	<p>No</p> <p>Yes</p> <p>No</p>
Dimensions	
Width of the housing front	313 mm
Height of housing front	225 mm; Without basic adapter
Weights	
Weight (without packaging)	5.1 kg

last modified:

8/8/2024 



ماکان کنترول