6AV2145-6KB20-0AS0

Data sheet



SIMATIC HMI TP1000F MOBILE 10.0" TFT display, 1280x800 pixels, 16 million colors, Touch operation, touch pen, 1x PROFINET/Industrial Ethernet interface, 1x multimedia card, 1x USB, key-operated switch, acknowledgement button, 1 emergency stop/stop button confiigurable from WinCC Comfort V14

General information	
Product type designation	TP1000F Mobile
Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	10.1 in
Color display	Yes
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; 0-100 %
Control elements	
Keyboard fonts	
 Function keys 	
 Number of function keys 	0
 Number of function keys with LEDs 	0
 Keys with LED 	No
Numeric keyboard	Yes; Onscreen keyboard
alphanumeric keyboard	Yes; Onscreen keyboard
Touch operation	
Design as touch screen	Yes
Design as multi-touch screen	No
Special operator controls	
 Stop button (forced blocking) 	Yes
 Emergency stop button (illuminated and forced blocking) 	Yes
 Acknowledgement button (3-stage) 	Yes
 Key-operated switch 	Yes
Illuminated pushbutton	Yes
Handwheel	No
Camera	
integrated camera	No
Expansions for operator control of the process	
 DP direct LEDs (LEDs as S7 output I/O) 	
— F1Fx	0
 Direct keys (keys as S7 input I/O) 	
— F1Fx	
	0
Direct keys (touch buttons as S7 input I/O)	0

Type of supply voltage	DC
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC) Input current	28.8 V
	450 4
Current consumption (rated value)	450 mA
Starting current inrush I²t	0.2 A ² ·s
Power	
Active power input, typ.	11 W
Processor	
Processor type	ARM
Memory	
Flash	Yes
RAM	Yes
Memory available for user data	12 Mbyte
Type of output	
Power LED	No
LED for safe	No
LED for communication	No
LED for battery	No
Vibrations	No
Time of day	
Clock	
Hardware clock (real-time)	Yes
• retentive	Yes
synchronizable	Yes
Interfaces	
Number of industrial Ethernet interfaces	1
Number of PROFINET interfaces	1
Number of RS 485 interfaces	0
Number of RS 422 interfaces	0
Number of RS 232 interfaces	0
	1; USB 2.0
Number of USB interfaces	
Number of wireless interfaces	0
Number of SD card slots	1
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	Yes
PROFIsafe	Yes
PROFIBUS	No
EtherNet/IP	Yes
MPI	No
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
WEB characteristics	
• HTTP	Yes
• HTTPS	Yes
• HTML	Yes
• XML	No
• CSS	Yes
Active X	No
JavaScript	Yes
• Java VM	No
Further protocols	
MODBUS	Yes
other bus systems	No
· Outor bus systems	110

communication functions / header	
Wireless communication	
supported standards	
— Radio standard WLAN 802.11	No
Bluetooth radio standard	No
Interrupts/diagnostics/status information	
Diagnoses	
Diagnostic information readable	Yes
EMC	100
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	
IP65 (all-round)	Yes
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	No
Suitable for safety functions	Yes
Marine approval	No
Highest safety class achievable in safety mode	
Performance level according to ISO 13849-1	PLe
SIL acc. to IEC 61508	SIL 3
Use in hazardous areas	
ATEX Zone 2	No
• ATEX Zone 22	No
• IECEx Zone 2	No
• IECEx Zone 22	No
• cULus Class I Zone 1	No
• cULus Class I Zone 2, Division 2	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
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	
Free fall	
• Fall height, max.	1.2 m
Ambient temperature during operation	
• min.	0 °C
• max.	45 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Relative humidity	
Operation, max.	90 %
Operating systems	
pre-installed operating system	
Windows CE	Yes
configuration / header	
Message indicator	Yes
Alarm system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes

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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) 	Yes
 WinCC Advanced (TIA Portal) 	Yes
WinCC Professional (TIA Portal)	Yes
Languages	
Online languages	
 Number of online/runtime languages 	32
Project languages	
 Languages per project 	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	
Web browser	Yes
Pocket Word	No
Pocket Excel	No
PDF Viewer	Yes
Media Player	No
SIMATIC WinCC Sm@rtServer	Yes
SIMATIC WinCC Audit	Yes
Number of Visual Basic Scripts	Yes
Task planner	1 30
• time-controlled	Yes
task-controlled	Yes
Help system	100
Number of characters per info text	500
Multiproject	300
Number of projects (internal)	0
Number of projects (internal) Number of projects (external)	0
Message system	22
Number of alarm classes Pit accounts.	32
Bit messages	4,000
— Number of bit messages	4 000
Analog messages	000
— Number of analog messages	200
S7 alarm number procedure	Yes
System messages HMI	Yes
 System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) 	Yes
 Number of characters per message 	80
 Number of process values per message 	8
 Acknowledgment groups 	Yes
Message indicator	Yes
Message buffer	
— Number of entries	1 024
 Circulating buffer 	Yes
— retentive	Yes
— maintenance-free	Yes
Recipe management	
Recipe management • Number of recipes	300
· · · · · ·	300 500
Number of recipesData records per recipe	
Number of recipes	500

Variables	
Number of variables per device	2 048
Number of variables per screen	400
Limit values	Yes
Multiplexing	Yes
Structures	Yes
	Yes
• Arrays	res
Images • Number of configurable images	500
Permanent window/default	Yes
Global image	Yes
Image selection by PLC	Yes
Image selection by TEC Image number in the PLC	Yes
Image objects	165
Number of objects per image	400
Text fields	Yes
• I/O fields	Yes
Graphic I/O fields (graphics list)	Yes
Symbolic I/O fields (text list)	Yes
Date/time fields	Yes
Switches	Yes
Graphic display	Yes
• Icons	Yes
Geometric objects	Yes
Complex image objects	
Number of complex objects per screen	20
Alarm view	Yes
Trend view	Yes
• User view	Yes
Status/control	Yes
Sm@rtClient view	Yes
Recipe view	Yes
• f(x) trend view	Yes
System diagnostics view	Yes
Media Player	No
Bar graphs	Yes
• Sliders	Yes
Pointer instruments	Yes
Analog/digital clock	Yes
Lists	
Number of text lists per project	500
Number of entries per text list	500
Number of graphics lists per project	500
Number of entries per graphics list	500
Archiving	
Number of archives per device	50
 Number of entries per archive 	20 000
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	Yes
Data storage format	
— CSV	Yes
— TXT	No
— RDB Security	Yes

Number of users 50 - Persiented spooth/import Yes - SiMATIC Lopon Yes - SiMATIC Lopon Yes - SimATIC Lopon Yes - Alarma	Number of user groups	50
Password export/import Yes	-	
SIMATIC Lagon		
Alaims		
- Alams		Yes
Report (shift log)		
Hardcopy No		
Electronic print to file		
Character sets		
Keyboard fonts		No
Transfer (uploaddownload) MPIPROFIBUS DP		
		Yes
Ethernet Wireless LAN vusing external storage medium Yes: Backup/restore Process coupling F7-1200 S7-1200 S7-1500 Yes S7-200 Ves S7-200 Yes S7-200 WinAC SINUMERIK Yes: WinAC RTX SIMOTION Yes Alane Bradley (EherNet/IP) Alen Bradley (EherNet/IP) Allen Bradley (DF1) No Allen Bradley (DF1) No Misubishi (MC TCP/IP) Yes Misubishi (FX) OMEON (FINS TCP) OMRON (INSTMILIBIN) No OMGON (Modbus TCP/IP) Addicon (Modbus TCP/IP) Addicon (Modbus TCP/IP) Addicon (Modbus S) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore automatically Backup/Restore automatically Samulation Device switchover Yes Signature Hill MM memory card: Multi Media Card SIMATIC HMI MM memory card: Multi Media Card Yes SIMATIC HMI MM memory card: Secure Digital memory card Yes SIMATIC HMI MM memory card: Secure Digital memory card Yes SIMATIC HMI MM memory card: Secure Digital memory card Yes Simatic HMI MM memory card: Secure Digital memory card Yes Simatic HMI MM memory card: Secure Digital memory card Yes Simatic HMI MM memory card: Secure Digital memory card Yes Simatic HMI MM memory card: Secure Digital memory card Yes Simatic HMI MM memory card: Secure Digital memory card Yes Simatic HMI MM memory card: Secure Digital memory card Yes Simatic HMI MM memory card: Secure Digital memory card Yes Simatic HMI MM memory card: Secure Digital memory card Yes Simatic HMI MM memory card: Secure Digital memory card Yes Simatic HMI MM memory card: Secure Digital memory card Yes Simatic HMI MM memory card: Secure Digital memory card Yes Simatic HMI MM memory card: Secure Digital memory card Yes Simatic HMI MMI memory card: Secure Digital memory card Yes Simatic HMI MMI memo		
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Process coupling		
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	• S7-1500	Yes
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	• WinAC	Yes; WinAC RTX
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● Stainless steel No Dimensions Width of the housing front 307.5 mm Height of housing front 223.5 mm Weights		
Dimensions Width of the housing front 307.5 mm Height of housing front 223.5 mm Weights		
Width of the housing front 307.5 mm Height of housing front 223.5 mm Weights		110
Height of housing front 223.5 mm Weights		307.5 mm
Weights		
		223.3
weight (without packaging)		1 C kg
	weight (without packaging)	1.0 kg

Weight (with packaging)	1.7 kg

last modified: 9/7/2023 🖸