

SIMATIC HMI TP1000F MOBILE RO 10.0" TFT display, 1280x800 pixels, 16 million colors, Touch operation, touch pen, 1x PROFINET/Industrial Ethernet interface, 1x multimedia card, 1x USB, no key-operated switch, acknowledgement button, 1 emergency stop/stop button with Remote Operate



Figure similar

General information	
Product type designation	TP1000F Mobile RO
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	No
• Illuminated pushbutton	No
• Handwheel	No
Camera	
• integrated camera	No
Expansions for operator control of the process	
• Direct keys (touch buttons as S7 input I/O)	0
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)	450 mA
Starting current inrush I st	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	
<ul style="list-style-type: none"> • Hardware clock (real-time) • retentive • synchronizable 	<ul style="list-style-type: none"> Yes Yes 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
Number of USB interfaces	1; USB 2.0
Number of wireless interfaces	0
Number of SD card slots	1
Protocols	
PROFINET	No
Supports protocol for PROFINET IO	No
PROFIsafe	No
PROFIBUS	No
EtherNet/IP	Yes
MPI	No
Protocols (Ethernet)	
<ul style="list-style-type: none"> • TCP/IP • DHCP • SNMP • DCP • LLDP 	<ul style="list-style-type: none"> Yes Yes Yes Yes Yes
WEB characteristics	
<ul style="list-style-type: none"> • HTTP • HTTPS • HTML • XML • CSS • Active X • JavaScript • Java VM 	<ul style="list-style-type: none"> Yes Yes Yes No Yes No Yes No
Further protocols	
<ul style="list-style-type: none"> • MODBUS • other bus systems 	<ul style="list-style-type: none"> Yes No

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

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

Languages

Online languages

- Number of online/runtime languages 32

Functionality under WinCC (TIA Portal)	
Security	
• Number of user groups	50
Service tools/configuration aids	
• Backup/Restore manually	Yes
• Backup/Restore automatically	Yes
Peripherals/Options	
Printer	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes
SIMATIC HMI SD memory card: Secure Digital memory card	Yes
USB memory	Yes
Additional software components loadable	Yes; SIMATIC options
Mechanics/material	
Enclosure material (front)	
• Plastic	Yes
• Aluminum	No
• Stainless steel	No
Dimensions	
Width of the housing front	307.5 mm
Height of housing front	223.5 mm
Weights	
Weight (without packaging)	1.6 kg
Weight (with packaging)	1.7 kg
last modified:	1/17/2021 