

*** spare part *** SIMATIC Mobile Panel 177 DP with integrated acknowledgment button, stop pushbutton, Handwheel, keyswitch and illuminated push-button, configurable with WinCC flexible Compact Version 2005 or higher or TIA Portal V11 to V14



Figure similar

General information	
Product type designation	Mobile Panel 177 DP
Display	
Design of display	STN
Screen diagonal	5.7 in
Color display	Yes
Number of colors	256
Resolution (pixels)	
• Horizontal image resolution	320 pixel
• Vertical image resolution	240 pixel
Backlighting	
• MTBF backlighting (at 25 °C)	50 000 h
• Backlight dimmable	No
Control elements	
Control elements	Keys and touch
Keyboard fonts	
• Membrane keyboard	Yes
— user-definable label membrane keys	
• Function keys	14
— Number of function keys	
— Number of function keys with LEDs	8
• Keys with LED	Yes; 8 with LED
• Numeric keyboard	Yes
• alphanumeric keyboard	Yes
• hexadecimal keyboard	Yes
• Multi-key operation	Yes
— Number of multi-key operations	2
Touch operation	
• Design as touch screen	Yes; analog, resistive
Special operator controls	
• Stop button	Yes
• Acknowledgement button	Yes
• Key-operated switch	Yes
• Illuminated pushbutton	Yes
• Handwheel	Yes
Supply voltage	
Design of the power supply	via connection box
Type of supply voltage	DC

Processor	
Processor type	RISC 32 bit, 200 MHz
Memory	
Type of memory	Flash / RAM
Memory available for user data	2 048 kbyte
Accumulator	
Buffer battery	Yes; maximum buffer time 10 min
Type of output	
Info LED	No
Power LED	No
Error LED	No
Interfaces	
Interfaces/bus type	1x RS 422, 1x RS 485 (max. 12 Mbit/s)
Number of industrial Ethernet interfaces	0
Number of RS 485 interfaces	1
Number of RS 422 interfaces	1
Number of USB interfaces	0
Number of wireless interfaces	0
PC card slot	No
CF card slot	No
Multimedia card/SD card slot	combined
Protocols	
Supports protocol for PROFINET IO	No
PROFIsafe	No
PROFIBUS	Yes
EtherNet/IP	No
AS-Interface	No
Protocols (Ethernet)	
• TCP/IP	No
Further protocols	
• MODBUS	Yes
• other bus systems	Yes
communication functions / header	
Wireless communication	
• supported standards	
— Radio standard WLAN 802.11	No
Standards, approvals, certificates	
Certificate of suitability	CE, cULus, C-TICK, SIBE
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
Suitable for safety functions	Yes
Highest safety class achievable in safety mode	
• Performance level according to ISO 13849-1	d
Use in hazardous areas	
• cULus Class I Zone 2, Division 2	No
• FM Class I Division 2	No
Ambient conditions	
Free fall	
• Fall height, max.	1.5 m
Ambient temperature during operation	
• min.	0 °C
• max.	40 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Relative humidity	
• Operation, max.	80 %
Operating systems	

pre-installed operating system	Windows CE
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	
<ul style="list-style-type: none"> • Configuration tool 	WinCC flexible Compact Version 2005 or higher (to be ordered separately)
<ul style="list-style-type: none"> • WinCC flexible Compact 	Yes
<ul style="list-style-type: none"> • WinCC flexible Standard 	Yes
<ul style="list-style-type: none"> • WinCC flexible Advanced 	Yes
<ul style="list-style-type: none"> • WinCC Basic (TIA Portal) 	No
<ul style="list-style-type: none"> • WinCC Comfort (TIA Portal) 	Yes
<ul style="list-style-type: none"> • WinCC Advanced (TIA Portal) 	Yes
<ul style="list-style-type: none"> • WinCC Professional (TIA Portal) 	Yes
Languages	
Online languages	
<ul style="list-style-type: none"> • Number of online/runtime languages 	5
Project languages	
<ul style="list-style-type: none"> • Languages per project 	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	none
<ul style="list-style-type: none"> • Web browser 	No
<ul style="list-style-type: none"> • Pocket Word 	No
<ul style="list-style-type: none"> • Pocket Excel 	No
<ul style="list-style-type: none"> • PDF Viewer 	No
<ul style="list-style-type: none"> • Media Player 	No
<ul style="list-style-type: none"> • SIMATIC WinCC Sm@rtServer 	Yes
<ul style="list-style-type: none"> • SIMATIC WinCC Audit 	No
<ul style="list-style-type: none"> • Connection point identification 	Yes
Number of Visual Basic Scripts	No
<ul style="list-style-type: none"> • Debugging in the simulator 	No
Task planner	Yes
Help system	Yes
<ul style="list-style-type: none"> • Number of characters per info text 	70
Message system	
<ul style="list-style-type: none"> • Number of alarm classes 	32
<ul style="list-style-type: none"> • Bit messages <ul style="list-style-type: none"> — Number of bit messages 	Yes 2 000
<ul style="list-style-type: none"> • Analog messages <ul style="list-style-type: none"> — Number of analog messages 	Yes 50
<ul style="list-style-type: none"> • Telegram message procedure Alarm S 	No
<ul style="list-style-type: none"> • System messages HMI 	Yes
<ul style="list-style-type: none"> • System messages PLC 	No
<ul style="list-style-type: none"> • System event, more (SIMATIC S7, SINUMERIK, SIMOTION, ...) 	No
<ul style="list-style-type: none"> • Lines 	1
<ul style="list-style-type: none"> • Number of characters per message 	80
<ul style="list-style-type: none"> • Number of process values per message 	8
<ul style="list-style-type: none"> • Message indicator 	Yes
<ul style="list-style-type: none"> • acoustic feedback 	No
<ul style="list-style-type: none"> • First/last value 	Yes
Recipe management	
<ul style="list-style-type: none"> • Number of recipes 	100
<ul style="list-style-type: none"> • Data records per recipe 	200
<ul style="list-style-type: none"> • Entries per data record 	200
<ul style="list-style-type: none"> • Recipe memory 	32 KB integrated Flash, expandable

Variables	
• Number of variables per device	1 024
• Number of variables per screen	50
• Limit values	Yes
• Multiplexing	Yes
• Structures	Yes
Images	
• Number of configurable images	500
• Permanent window/default	Yes
• Start screen configurable	Yes
• Image selection by PLC	Yes
• Image number in the PLC	Yes
Image objects	
• Text objects	2 500 text elements
• Number of I/O fields per image	50
• Index of screen context	No
• Return	Yes
• Graphics object	Bit maps, vector graphics
Complex image objects	
• Status/control	Yes; With SIMATIC S7
• dynamic objects	Diagrams, bar graphs, sliders, invisible buttons
• Methods	Trend / profile
• Bar graphs	
— Number of bars per chart	5
• Limit value lines	Yes
• Number of visible switches per project	1 000
Attributes for dynamic objects	
• Color change	Yes
• X/Y movement	Yes
• Hide	Yes
• Angle of rotation	No
Lists	
• Number of text lists per project	300
• Number of entries per text list	30
• Number of graphics lists per project	100
Archiving	
• Number of archives per device	0
• Message archive	No
• Process value archive	No
• Archiving methods	
— Sequential archive	No
— Short-term archive	No
• Memory location	
— USB memory	No
— Ethernet	No
• Data storage format	
— CSV	No
— TXT	No
• Online evaluation	
— using trend curves	No
Security	
• Number of user groups	50
• Number of user rights	32
• Password export/import	Yes
Transfer (upload/download)	
• Transfer of configuration	MPI/PROFIBUS DP, serial, automatic transfer recognition
Process coupling	
• Connection to controller	S5, S7-200, S7-300/400, TI 505, Win AC, SINUMERIK, SIMOTION, Allen Bradley (DF1), Allen Bradley (DF485), Mitsubishi (FX), OMRON (LINK/Multilink), Modicon (Modbus), further non-Siemens drivers, see chapter "System interfaces"

- S7-1200 Yes; with restrictions
- S7-1500 Yes; with restrictions
- S7-200 Yes
 - PPI (point-to-point) Yes
 - PPI network Yes
 - MPI Yes
 - PROFIBUS DP Yes
- S7-300/400 Yes
 - MPI Yes
 - PROFIBUS DP Yes
 - PROFINET No
- LOGO! No
- WinAC Yes
- SINUMERIK Yes
- SIMOTION Yes
- S5 Yes
 - serial No
 - PROFIBUS DP Yes
- TI 505 Yes
- Allen Bradley (EtherNet/IP) No
- Allen Bradley (DF1) Yes
- Allen Bradley (DF485) Yes
- Mitsubishi (MC TCP/IP) No
- Mitsubishi (FX) Yes
- Mitsubishi (MP4) Yes
- Telemecanique (ADJUST) No
- Telemecanique (Uni-Telway) Yes
- OMRON (FINS TCP) No
- OMRON (LINK/Multilink) Yes
- Modicon (Modbus TCP/IP) No
- Modicon (Modbus) Yes
- GE-Fanuc (SNP) Yes

Functions

- Key repeat No
- TAB sequence Yes
- Calculating functions Yes
- Animate Yes
- Menu tree editor No
- Unit switchover No

Service tools/configuration aids

- Clean screen No
- Touch calibration Yes
- Backup/Restore manually Yes
- Simulation Yes
- Device switchover Yes
- Delta transfer Yes
- Monitoring function for battery and memory Yes
- Trace (operation archive) No

Expandability/openness

- Open Platform Program Yes

Peripherals/Options

- Printer Yes
- SIMATIC HMI MM memory card: Multi Media Card Yes
- SIMATIC HMI SD memory card: Secure Digital memory card No
- USB memory No

Mechanics/material

- Enclosure material (front) plastic

Dimensions

- Enclosure diameter 245 mm

Depth of housing	58 mm
Weights	
Weight (without packaging)	1.3 kg
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