

SIMATIC MOBILE PANEL 177 DP WITH INTEGRATED ENABLING BUTTON AND STOP BUTTON, CONFIGURABLE WITH WINCC FLEXIBLE COMPACT VERSION 2005 AND HIGHER OR TIA PORTAL V11 AND HIGHER



Display	
Design of display	STN
Screen diagonal	5.7 in
Size	5.7" (121 mm x 92 mm)
Display type	STN, 256 colors
Number of colors	256
Number of grayscales	256
Color type	Colors
Resolution (pixels)	
• Horizontal image resolution	320
• Vertical image resolution	240
• Resolution (WxH in pixel)	320 x 240
Backlighting	
• MTBF backlighting (at 25 °C)	50 000 h
• Dimmable backlight	No
Control elements	
Operating options	Keys and Touch
Function keys, programmable	14 function keys, 8 with LEDs
Keyboard	

• Number of function keys	14
• Keys with LED	Yes; 8 with LED
• freely inscribable membrane keys	Yes
• Number of function keys with LEDs	8
— Multi-key operation	Yes
— Number of multi-key operations	2
• System keys	Yes
— Number of configurable system keys	14
• Numeric/alphabetical input	Yes / Yes
— hexadecimal keyboard	Yes
• Multi-key operation	No
Touch operation	
• Design as touch screen	Yes
Special operator controls	
• Stop button	Yes
• Acknowledgement button	Yes
• Key-operated switch	No
• Illuminated pushbutton	No
• Handwheel	No
Supply voltage	
Type of supply voltage	DC
Supply voltage	via connection box
Processor	
Processor type	RISC 32-bit, 200 MHz
Drives	
Diskette drive	No
CD-ROM	No
Hard disk	No
Memory	
Usable memory for user data	2 048 kbyte
Type of output	
Info LED	No
Power LED	No
Error LED	No
Interfaces	
Interfaces	1 x RS422, 1 x RS485 (max. 12 Mbit/s)
Number of RS 485 interfaces	1
• Transmission rate, max.	12 Mbit/s
Number of USB interfaces	0
USB port	No
PC card slot	No

CF card slot	No
Multimedia card/SD card slot	combined
Number of parallel interfaces	0
Special interfaces	1 x special interfaces
Industrial Ethernet	
• Industrial Ethernet interface	No
• Industrial Ethernet status LED	0
Protocols	
PROFINET	No
PROFINET IO	No
Supports protocol for PROFIsafe	No
PROFIBUS	Yes
Protocols (Ethernet)	
• TCP/IP	No
Further protocols	
• AS-i	No
• CAN	No
• INTERBUS	No
• MODBUS	Yes
• Data highway	No
• DeviceNet	No
• Local Operating Network	No
• SUCOnet	No
• other bus systems	Yes
Standards, approvals, certificates	
Certifications	CE, cULus, C-TICK, SIBE
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
Highest safety class achievable in safety mode	
• Performance level according to EN ISO 13849-1:2008	d
Use in hazardous areas	
• cULus Class I Zone 2, Division 2	No
• FM Class I Division 2	No
Ambient conditions	
Drop height	1.5 m
Operating temperature	
• Operation	0 °C to +40 °C
Storage/transport temperature	
• Transport, storage	-20 °C to +60 °C
Relative humidity	
• Operation, max.	80 %

Operating systems	
Operating system	Windows CE
Configuration	
Message indicator	Yes
With alarm logging system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe administration	Yes
Configuration software	
• WinCC flexible Compact	Yes
• WinCC flexible Standard	Yes
• WinCC flexible Advanced	Yes
• WinCC Basic (TIA Portal)	No
• WinCC Comfort (TIA Portal)	Yes
• WinCC Advanced (TIA Portal)	Yes
• WinCC Professional (TIA Portal)	Yes
• Configuration tool	WinCC flexible Compact Version 2005 or higher (to be ordered separately)
• 2nd configuration kit	WinCC flexible Compact
— Version	Version 2005
— Configuration tool	WinCC flexible
— Type	Compact
Languages	
Online languages	
• Number of online/runtime languages	5
Languages	
• Languages per project	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	none
• Pocket Word	No
• Pocket Excel	No
• PDF Viewer	No
• Media Player	No
• SIMATIC WinCC Sm@rtServer	Yes
• SIMATIC WinCC Audit	No
• Connection point identification	Yes
Number of Visual Basic Scripts	No
• Debugging in the simulator	No
Task planner	Yes
Help system	Yes
• Number of characters per info text	70

Message system	
• Number of alarm classes	32
• Number of messages	2 000
• Bit messages	Yes
• Analog messages	Yes
• Number of bit messages	2 000
• Number of analog messages	50
• Telegram message procedure Alarm S	No
• System messages HMI	Yes
• System messages PLC	No
• System messages, other (SIMATIC S7, Sinumerik, Simotion, etc.)	No
• Message length (in characters)	80
• Lines	1
• Number of process values per message	8
• Message indicator	Yes
• Acoustic feedback	No
• First/last value	Yes
Recipe administration	
• Number of recipes	100
• Data records per recipe	200
• Entries per data record	200
• 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
• Structs	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
• Fields per image	50
• Index of screen context	No
• Return	Yes
• Graphics object	Bit maps, vector graphics
Complex image objects	
• Status/control	With SIMATIC S7

• dynamic objects • Methods • Limit value lines • Number of bars per chart • Limit value lines • Number of visible switches per project	Diagrams, bar graphs, sliders, invisible buttons Trend / profile Yes 5 Yes 1 000
Attributes for dynamic objects	
• Color change • X/Y movement • Hide • Angle of turn	Yes Yes Yes No
Lists	
• Number of text lists per project • Number of entries per text list • Number of graphics lists per project	300 30 100
Archiving	
• Number of archives per device • Message archive • Process value archive • Archiving methods — Sequential archive — Short-term archive • Memory location — PC card — CF card — USB memory — Ethernet • Data storage format — CSV — TXT • Online evaluation — via trends	0 No No No No No No No No No No No
Security	
• Number of user groups • Number of user rights • Password export/import	50 32 Yes
Data carrier support	
• PC card • CF card • Diskette drive • Hard disk	No No No No
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), weitere Fremdtreiber siehe Kapitel "Systemkopplungen"
• 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
• 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	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
I/O / Options	
I/O devices	
• Printer	Yes
• MultiMediaCard	Yes
• SD card	No
• USB memory	No
Mechanics/material	
Type of housing (front)	plastic
• plastic	Yes
Dimensions	
Housing diameter/depth (mm)	Dia 245 mm / D 58 mm
Weights	
Weight (without packaging)	1.3 kg
other	
free hotline	Yes
Warranty period	1 y
last modified:	12.11.2014