

SIMATIC MOBILE PANEL 177 PN W. INTEGRATED ENABLING BUTTON, CONFIGURABLE W. 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 greyscales	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
<b>Touch operation</b>	
• Design as touch screen	Yes
<b>Special operator controls</b>	
• Stop button	No
• Acknowledgement button	Yes
• Key-operated switch	No
• Illuminated pushbutton	No
• Handwheel	No
<b>Supply voltage</b>	
Type of supply voltage	DC
Supply voltage	via connection box
<b>Processor</b>	
Processor type	RISC 32-bit, 200 MHz
<b>Drives</b>	
Diskette drive	No
CD-ROM	No
Hard disk	No
<b>Memory</b>	
Usable memory for user data	2 048 kbyte
<b>Type of output</b>	
Info LED	No
Power LED	No
Error LED	No
<b>Interfaces</b>	
Interfaces	1 x RS485, 1 x Ethernet (RJ45)
Number of RS 485 interfaces	1
• Transmission rate, max.	0 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
<b>Industrial Ethernet</b>	
• Industrial Ethernet interface	1 x Ethernet (RJ45)
• Industrial Ethernet status LED	0
<b>Protocols</b>	
PROFINET	Yes
PROFINET IO	Yes
Supports protocol for PROFI-safe	No
PROFIBUS	No
<b>Protocols (Ethernet)</b>	
• TCP/IP	Yes
<b>Further protocols</b>	
• AS-i	No
• CAN	No
• INTERBUS	No
• MODBUS	Yes
• Data highway	No
• DeviceNet	No
• Local Operating Network	No
• SUCOnet	No
• other bus systems	Yes
<b>Standards, approvals, certificates</b>	
Certifications	CE, cULus, C-TICK, SIBE
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
<b>Highest safety class achievable in safety mode</b>	
• Performance level according to EN ISO 13849-1:2008	d
<b>Use in hazardous areas</b>	
• cULus Class I Zone 2, Division 2	No
• FM Class I Division 2	No
<b>Ambient conditions</b>	
Drop height	1.5 m
<b>Operating temperature</b>	
• Operation	0 °C to +40 °C
<b>Storage/transport temperature</b>	
• Transport, storage	-20 °C to +60 °C
<b>Relative humidity</b>	
• 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	Sm@rtService, Sm@rtAccess
• 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	Diagrams, bar graphs, sliders, invisible buttons
• Methods	Trend / profile
• Limit value lines	Yes
• Number of bars per chart	5
• Limit value lines	Yes
• Number of visible switches per project	1 000
<b>Attributes for dynamic objects</b>	
• Color change	Yes
• X/Y movement	Yes
• Hide	Yes
• Angle of turn	No
<b>Lists</b>	
• Number of text lists per project	300
• Number of entries per text list	30
• Number of graphics lists per project	100
<b>Archiving</b>	
• Number of archives per device	0
• Message archive	No
• Process value archive	No
• Archiving methods	
— Sequential archive	No
— Short-term archive	No
• Memory location	
— PC card	No
— CF card	No
— USB memory	No
— Ethernet	No
• Data storage format	
— CSV	No
— TXT	No
• Online evaluation	
— via trends	No
<b>Security</b>	
• Number of user groups	50
• Number of user rights	32
• Password export/import	Yes
<b>Data carrier support</b>	
• PC card	No
• CF card	No
• Diskette drive	No
• Hard disk	No
<b>Transfer (upload/download)</b>	
• Transfer of configuration	Serial, Ethernet, automatic transfer recognition

## Process coupling

• Connection to controller	S7-200, S7- 300/400, Win AC, PC (TCP/IP), SIMOTION, Modicon (Modbus), see the chapter "System interfaces"
• S7-1200	Yes; with restrictions
• S7-1500	Yes; with restrictions
• S7-200	Yes
— PPI (point-to-point)	No
— PPI network	No
— MPI	No
— PROFIBUS DP	No
— Ethernet	Yes
• S7-300/400	Yes
— MPI	No
— PROFIBUS DP	No
— PROFINET	Yes
• LOGO!	No
• SINUMERIK	Yes
• SIMOTION	Yes
• S5	No
— serial	No
— PROFIBUS DP	No
• TI 505	No
• Allen Bradley (EtherNet/IP)	Yes
• Allen Bradley (DF1)	No
• Allen Bradley (DF485)	No
• Mitsubishi (MC TCP/IP)	Yes
• Mitsubishi (FX)	No
• Mitsubishi (MP4)	No
• Telemecanique (ADJUST)	No
• Telemecanique (Uni-Telway)	No
• OMRON (FINS TCP)	No
• OMRON (LINK/Multilink)	No
• Modicon (Modbus TCP/IP)	Yes
• Modicon (Modbus)	No
• GE-Fanuc (SNP)	No

## 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
<b>Expandability/openness</b>	
• Open Platform Program	Yes
<b>I/O / Options</b>	
I/O devices	Printer
• Printer	Yes
• MultiMediaCard	Yes
• SD card	No
• USB memory	No
<b>Mechanics/material</b>	
Type of housing (front)	plastic
• plastic	Yes
<b>Dimensions</b>	
Housing diameter/depth (mm)	Dia 245 mm / D 58 mm
<b>Weights</b>	
Weight (without packaging)	1.3 kg
<b>other</b>	
free hotline	Yes
Warranty period	1 y
<b>last modified:</b>	12.11.2014