

\*\*\* SPARE PART\*\*\* SIMATIC MOBILE PANEL 170 WITH INTEGRATED ENABLING BUTTON CONFIGURABLE W. PROTOOL/LITE VERSION V6.0+SP2 AND HIGHER

Display	
Design of display	STN
Screen diagonal	5.7 in
Color display	Yes
Number of colors	16
Resolution (pixels)	
• Horizontal image resolution	320 Pixel
• Vertical image resolution	240 Pixel
Backlighting	
• MTBF backlighting (at 25 °C)	50 000 h
Control elements	
Control elements	Keys and touch
Keyboard fonts	
• Membrane keyboard	
— user-definable label membrane keys	Yes
• Function keys	
— Number of function keys	14
— Number of function keys with LEDs	8
• 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	
• Illuminated pushbutton	No
• Handwheel	No
Supply voltage	
Design of the power supply	via connection box
Processor	
Processor type	RISC 32 bit, 66 MHz
Drives	

Diskette drive	No
CD-ROM	No
Hard disk	No

### Memory

Type of memory	Flash / RAM
Memory available for user data	768 kbyte

### Type of output

Info LED	No
Power LED	No
Error LED	No

### Time of day

Clock	
• Hardware clock (real-time)	Yes
• retentive	No

### Interfaces

Interfaces/bus type	2x RS 232, 1x RS 422, 1x RS 485 (max. 12 Mbit/s)
Number of RS 485 interfaces	1
Number of USB interfaces	0
PC card slot	No
CF card slot	1x CF card slot
Multimedia card/SD card slot	No
Special interfaces	No

### Degree and class of protection

Degree of protection acc. to EN 60529	IP65
---------------------------------------	------

### Standards, approvals, certificates

Certifications	CE, cULus, SIBE
CE mark	Yes

### 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	
Configuration software	
• Configuration tool	ProTool / Lite, Version 6 SP 2 and higher or WinCC flexible Compact Version 1 and higher (to be ordered separately)
Languages	
Online languages	
• Number of online/runtime languages	5
Project languages	
• Languages per project	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	none
• Web browser	No
• Pocket Word	No
• Pocket Excel	No
• SIMATIC WinCC Sm@rtServer	No
Number of Visual Basic Scripts	
• Debugging in the simulator	No
Task planner	Yes
Help system	Yes
• Number of characters per info text	70
• Number of tooltips	0
Message system	
• Number of alarm classes	32
• Number of messages	2 000
• Bit messages	Yes
— Number of bit messages	2 000
• Analog messages	Yes
— 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
• Lines	1
• Number of characters per message	70
• Number of process values per message	8
• Acknowledgment groups	
— Number of acknowledgement groups	99
• Message indicator	Yes
• acoustic feedback	Yes

• First/last value	Yes
<b>Recipe management</b>	
• Number of recipes	100
• Data records per recipe	200
• Entries per data record	200
• Recipe memory	32 KB integrated Flash, expandable
<b>Variables</b>	
• Number of variables per device	1 024
• Number of variables per screen	50
• Limit values	Yes
• Multiplexing	Yes
• Structures	Yes
<b>Images</b>	
• Number of configurable images	500
• Permanent window/default	Yes
• Start screen configurable	Yes
• Image selection by PLC	Yes
• Image number in the PLC	Yes
<b>Image objects</b>	
• 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
<b>Complex image objects</b>	
• Status/control	No
• 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
<b>Attributes for dynamic objects</b>	
• Color change	Yes
• X/Y movement	Yes
• Hide	Yes
• Angle of rotation	No
<b>Lists</b>	
• Number of text lists per project	300
• Number of graphics lists per project	100
<b>Archiving</b>	

• Number of archives per device	0
• Number of measuring points per project	0
• Number of entries per archive	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
<b>Filters</b>	
• cyclic	No
• Tolerance	No
• Change	No
<b>Security</b>	
• Number of user groups	10
• Number of users	32
• Password export/import	Yes
<b>Logging through printer</b>	
• Recording/Printing	Alarms, report (shift report), color print
<b>Transfer (upload/download)</b>	
• Transfer of configuration	MPI/PROFIBUS DP, serial, automatic transfer recognition
<b>Process coupling</b>	
• 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"
• S7-200	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

• SINUMERIK	Yes
• SIMOTION	Yes
• S5	Yes
— serial	Yes
— PROFIBUS DP	Yes
• TI 505	Yes
• Allen Bradley (DF1)	Yes
• Allen Bradley (DF485)	Yes
• Mitsubishi (FX)	Yes
• Mitsubishi (MP4)	Yes
• Telemecanique (ADJUST)	No
• Telemecanique (Uni-Telway)	No
• OMRON (FINS TCP)	Yes
• OMRON (LINK/Multilink)	Yes
• Modicon (Modbus)	Yes
• GE-Fanuc (SNP)	Yes
<b>Functions</b>	
• Key repeat	No
• TAB sequence	Yes
• Calculating functions	Yes
• Animate	Yes
• Menu tree editor	No
• Unit switchover	No
<b>Service tools/configuration aids</b>	
• 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
<b>Expandability/openness</b>	
• Open Platform Program	Yes
<b>Peripherals/Options</b>	
Peripherals	Printer
• Printer	Yes
• SIMATIC HMI MM memory card: Multi Media Card	No
• 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

### Other

free hotline

Yes

**last modified:**

08/06/2019