

\*\*\* SPARE PART\*\*\* SIMATIC MOBILE PANEL 170 WITH INTEGRATED ENABLING BUTTON EMERGENCY-OFF BUTTON, HANDWHEEL, KEY SWITCH AND ILLUMINATED PUSHBUTTON UNIT, CONFIGURABLE W. PROTOOL/LITE VERSION V6.0+SP2 AND HIGHER

Display	
Design of display	STN
Screen diagonal	5.7 in
Number of colors	16
Color type	Colors
Resolution (pixels)	
<ul style="list-style-type: none"> <li>Resolution (WxH in pixel)</li> </ul>	320 x 240
<ul style="list-style-type: none"> <li>Horizontal image resolution</li> </ul>	320 Pixel
<ul style="list-style-type: none"> <li>Vertical image resolution</li> </ul>	240 Pixel
Backlighting	
<ul style="list-style-type: none"> <li>MTBF backlighting (at 25 °C)</li> </ul>	50 000 h
Control elements	
Control elements	Keys and Touch
Keyboard fonts	
<ul style="list-style-type: none"> <li>Membrane keyboard                             <ul style="list-style-type: none"> <li>— user-definable label membrane keys</li> </ul> </li> </ul>	Yes
<ul style="list-style-type: none"> <li>Function keys                             <ul style="list-style-type: none"> <li>— Number of function keys</li> <li>— Number of function keys with LEDs</li> </ul> </li> </ul>	14 8
<ul style="list-style-type: none"> <li>Numeric/alphabetical input                             <ul style="list-style-type: none"> <li>— hexadecimal keyboard</li> </ul> </li> </ul>	Yes / Yes Yes
<ul style="list-style-type: none"> <li>Multi-key operation                             <ul style="list-style-type: none"> <li>— Number of multi-key operations</li> </ul> </li> </ul>	Yes 2
Touch operation	
<ul style="list-style-type: none"> <li>Design as touch screen</li> </ul>	Yes; analog, resistive
Special operator controls	
<ul style="list-style-type: none"> <li>Illuminated pushbutton</li> </ul>	Yes
<ul style="list-style-type: none"> <li>Handwheel</li> </ul>	Yes
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	
<ul style="list-style-type: none"> <li>• Type</li> <li>• Hardware clock (real-time)</li> <li>• Software clock</li> <li>• retentive</li> </ul>	<ul style="list-style-type: none"> <li>Hardware clock, no battery backup</li> <li>Yes</li> <li>No</li> <li>No</li> </ul>
Interfaces	
Interfaces/bus type	2 x RS232, 1 x RS422, 1 x RS485 (max. 12 Mbit/s)
Number of RS 485 interfaces	1
<ul style="list-style-type: none"> <li>• Transmission rate, max.</li> </ul>	12 Mbit/s
Number of USB interfaces	0
USB port	No
PC card slot	No
CF card slot	1 x CF card slot
Multimedia Card slot	No
Special interfaces	No
Industrial Ethernet	
<ul style="list-style-type: none"> <li>• Industrial Ethernet interface</li> <li>• Industrial Ethernet status LED</li> </ul>	<ul style="list-style-type: none"> <li>No</li> <li>0</li> </ul>
Degree and class of protection	
Enclosure according to EN 60529	IP65
Standards, approvals, certificates	
Certifications	CE, cULus, SIBE
CE mark	Yes
Ambient conditions	
Free fall	
<ul style="list-style-type: none"> <li>• Fall height, max.</li> </ul>	1.5 m
Ambient temperature during operation	

• min.	0 °C
• max.	40 °C
<b>Ambient temperature during storage/transportation</b>	
• min.	-20 °C
• max.	60 °C
<b>Relative humidity</b>	
• Operation, max.	80 %
<b>Operating systems</b>	
Operating system	Windows CE
<b>Configuration</b>	
<b>Configuration software</b>	
• Configuration tool	ProTool / Lite, Version 6 SP 2 and higher or WinCC flexible Compact Version 1 and higher (to be ordered separately)
• 1. Configuration kit	ProTool / Lite
— Version	Version 6 SP 2
— Configuration tool	ProTool
— Type	Lite
• 2. Configuration kit	WinCC flexible Compact
— Version	Version 1
— Configuration tool	WinCC flexible
— Type	Compact
<b>Languages</b>	
<b>Online languages</b>	
• Number of online/runtime languages	5
<b>Project languages</b>	
• Languages per project	32
<b>Functionality under WinCC (TIA Portal)</b>	
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
<b>Message system</b>	

• 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	
— PC card	No
— CF card	No
— 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>Data carrier support</b>	
• PC card	No
• CF card	Yes
• Diskette drive	No
• Hard disk	No
• CD-ROM	No
<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), weitere Fremdtreiber siehe Kapitel "Systemkopplungen"
• 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
<b>Mechanics/material</b>	
Type of housing (front)	plastic
<b>Dimensions</b>	
Enclosure diameter	245 mm
Depth of housing	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>	09/08/2016