

SIMATIC TOUCHPANEL TP170B COLOR STN COLOR  
 DISPLAY MPI-/PROFIBUS-DP INTERFACE  
 PRINTER/RS232 INTERFACE SLOT FOR CF-CARD  
 CONFIGURABLE WITH PROTOOL/LITE FROM VERSION  
 V5.2+SP2



## Display

<b>Design of display</b>	STN
<b>Screen diagonal</b>	5.7 in
<b>Size</b>	5.7"
<b>Display type</b>	STN, 16 colors
<b>Color type</b>	Colors

## Resolution (pixels)

<b>Horizontal image resolution</b>	320
<b>Vertical image resolution</b>	240
<b>Resolution (WxH in pixel)</b>	320 x 240

## Backlighting

<b>MTBF backlighting (at 25 °C)</b>	about 50,000 hours
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## Control elements

<b>Control elements</b>	Touch screen
<b>Operating options</b>	Touch
<b>Connection for mouse/keyboard/barcode reader</b>	- / - / -

## Keyboard fonts

<b>Numeric/alphabetical input</b>	Yes / Yes
<b>hexadecimal keyboard</b>	Yes

<b>Multi-key operation</b>	No
<b>Touch operation</b>	
<b>Touch screen</b>	Analog, resistive
<b>Supply voltage</b>	
<b>Supply voltage</b>	24 V DC
<b>Input current</b>	
<b>Rated current</b>	0.25 A
<b>Power</b>	
<b>Power</b>	7 W
<b>Processor</b>	
<b>Processor</b>	RISC 32-bit, 66 MHz
<b>Processor type</b>	RISC 32-bit
<b>Memory</b>	
<b>Type</b>	Flash / RAM
<b>Usable memory for user data</b>	768 KB usable memory for user data
<b>Drives</b>	
<b>Diskette drive</b>	No
<b>CD-ROM</b>	No
<b>Hard disk</b>	No
<b>Time of day</b>	
<b>Clock</b>	
<b>Type</b>	Software clock, synchronizable, no battery backup
<b>battery-backed and synchronizable</b>	No
<b>Interfaces</b>	
<b>Interfaces</b>	TTY optional, 2 x RS232, 1 x RS422, 1 x RS485 (max. 12 Mbit/s)
<b>Number of RS 485 interfaces</b>	1
<b>Transmission rate, max.</b>	12 Mbit/s
<b>CF card slot</b>	1 x CF card slot
<b>Degree and class of protection</b>	
<b>Front</b>	IP65
<b>Type of protection</b>	IP20
<b>IP (at the front)</b>	IP65
<b>Rear</b>	IP20
<b>Standards, approvals, certificates</b>	
<b>Certifications</b>	CE, FM Class I Div. 2, UL, CSA
<b>Ambient conditions</b>	
<b>Mounting position</b>	vertical

<b>maximum permissible angle of inclination without external ventilation</b>	+/- 35 °
<b>Storage/transport temperature</b>	
<b>Transport, storage</b>	-20 °C to +60 °C
<b>Relative humidity</b>	
<b>max. relative humidity</b>	85 %
<b>Operating systems</b>	
<b>Operating system</b>	Windows CE
<b>Configuration</b>	
<b>Configuration software</b>	
<b>Configuration tool</b>	ProTool / Lite, Version 5.2 SP 2 or higher or WinCC flexible Compact Version 2004 or higher (to be ordered separately)
<b>1st configuration kit</b>	ProTool / Lite
<b>Version</b>	Version 5.2 SP 2
<b>Configuration tool</b>	ProTool
<b>Type</b>	Lite
<b>2nd configuration kit</b>	WinCC flexible Compact
<b>Version</b>	Version 2004
<b>Configuration tool</b>	WinCC flexible
<b>Type</b>	Compact
<b>Languages</b>	
<b>Online languages</b>	
<b>Number of online/runtime languages</b>	5
<b>Languages</b>	
<b>Languages per project</b>	32
<b>Functionality under WinCC flexible</b>	
<b>Libraries</b>	Yes
<b>Task planner</b>	Yes
<b>Help system</b>	Yes
<b>Number of characters per info text</b>	70
<b>Number of tooltips</b>	0
<b>With alarm logging system (incl. buffer and acknowledgment)</b>	
<b>Number of alarm classes</b>	32
<b>Number of messages</b>	2000
<b>Bit messages</b>	Yes
<b>Analog messages</b>	Yes
<b>Number of bit messages</b>	2000
<b>Number of analog messages</b>	2000
<b>Telegram message procedure Alarm S</b>	No

<b>System messages HMI</b>	Yes
<b>System messages PLC</b>	No
<b>System messages, other (SIMATIC S7, Sinumerik, Simotion, ...)</b>	No
<b>Message length (in characters)</b>	80
<b>Lines</b>	1
<b>Number of process values per message</b>	8
<b>Acknowledgment groups</b>	99
<b>Message indicator</b>	Yes
<b>Acoustic feedback</b>	No
<b>First/last value</b>	Yes
<b>Recipes</b>	
<b>Number of recipes</b>	100
<b>Data records per recipe</b>	200
<b>Entries per data record</b>	200
<b>Recipe memory</b>	32 KB integrated Flash, expandable
<b>Variables</b>	
<b>Number of variables per device</b>	1000
<b>Number of variables per screen</b>	50
<b>Number of variables</b>	1000
<b>Initial values</b>	1000
<b>Limit values</b>	Yes
<b>Multiplexing</b>	Yes
<b>Structs</b>	No
<b>Type Date &amp; Time</b>	1000
<b>Images</b>	
<b>Number of configurable images</b>	100
<b>Permanent window/default</b>	Yes
<b>Start screen configurable</b>	Yes
<b>Image selection by PLC</b>	Yes
<b>Image number in the PLC</b>	Yes
<b>Image objects</b>	
<b>Text objects</b>	2,000 text elements
<b>Fields per image</b>	0
<b>Date/time fields</b>	30
<b>Index of screen context</b>	No
<b>Return</b>	Yes
<b>Graphics object</b>	Bit maps, icons, icon (full-screen)
<b>Icons</b>	500

Icon (full screen)	50
<b>Complex image objects</b>	
Status/control	Not possible
dynamic objects	Diagrams, bar graphs, invisible buttons
Number of objects per project	500
Number per image	5
Methods	Trend
Limit value lines	Yes
Number of bars per chart	5
Limit value lines	Yes
alphanumeric fields	1000
alphanumeric fields per image	100
numerical fields	1000
numerical fields per image	100
Password errors	1000
Number of slides per image	0
Number of analog indicators per image	0
Number of visible switches per project	1000
visible switches per image	100
hidden switches per image	100
Number of status switches per project	1000
Button status switches per image	100
Number of selector switches per project	1000
Selector switches per image	100
Number of decade switches per project	0
Decade switches per image	0
Number of signal lamps per project	1000
Signal lamps per image	100
<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 text lists per image	10
Number of entries per text list	256
Number of graphics lists per project	100
Number of graphic lists per image	10

Number of entries per graphics list	255
<b>Security</b>	
Number of user groups	10
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), Mitsubishi (FX), Telemecanique (ADJUST), Modicon (Modbus), for further non-Siemens drivers, see section on "System interfaces"
<b>S7-200</b>	Yes
PPI (point-to-point)	Yes
PPI network	No
MPI	Yes
PROFIBUS DP	Yes
<b>S7-300/400</b>	Yes
MPI	Yes
PROFIBUS DP	Yes
PROFINET	No
<b>S5</b>	Yes
serial	Yes
PROFIBUS DP	Yes
<b>TI 505</b>	Yes
Allen Bradley (DF1)	Yes
Allen Bradley (DF485)	No
Mitsubishi (FX)	Yes
Mitsubishi (MP4)	Yes
Telemecanique (ADJUST)	Yes
Telemecanique (Uni-Telway)	Yes
OMRON (LINK/Multilink)	No
Modicon (Modbus)	Yes

<b>GE-Fanuc (SNP)</b>	Yes
<b>Functions</b>	
<b>Key repeat</b>	No
<b>TAB sequence</b>	Yes
<b>Calculating functions</b>	Yes
<b>Animate</b>	Yes
<b>Menu tree editor</b>	No
<b>Unit switchover</b>	No
<b>Service tools/configuration aids</b>	
<b>Clean screen</b>	Yes
<b>Touch calibration</b>	Yes
<b>Backup/restore</b>	Yes
<b>Simulation</b>	Yes
<b>Device switchover</b>	Yes
<b>Delta transfer</b>	Yes
<b>Monitoring function for battery and memory</b>	Yes
<b>Trace (operation archive)</b>	No
<b>Expandability/openness</b>	
<b>Open Platform Program</b>	Yes
<b>I/O / Options</b>	
<b>I/O devices</b>	Printer
<b>Multi Media Card</b>	No
<b>SD card</b>	No
<b>USB memory</b>	No
<b>Dimensions</b>	
<b>Front of enclosure (W x H)</b>	212 mm x 156 mm
<b>Weight</b>	
<b>Weight</b>	0.7 kg
<b>other</b>	
<b>free hotline</b>	Yes
<b>Warranty period</b>	1 a
Status	Apr 23, 2013