

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	
Design of display	STN
Screen diagonal	5.7 in
Size	5.7"
Display type	STN, 16 colors
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)	about 50,000 hours
Control elements	
Control elements	Touch screen
Operating options	Touch
Connection for mouse/keyboard/barcode reader	- / - / -
Keyboard fonts	
Numeric/alphabetical input	Yes / Yes
hexadecimal keyboard	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

System messages HMI	Yes
System messages PLC	No
System messages, other (SIMATIC S7, Sinumerik, Simotion, ...)	No
Message length (in characters)	80
Lines	1
Number of process values per message	8
Acknowledgment groups	99
Message indicator	Yes
Acoustic feedback	No
First/last value	Yes
<b>Recipes</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	1000
Number of variables per screen	50
Number of variables	1000
Initial values	1000
Limit values	Yes
Multiplexing	Yes
Structs	No
Type Date & Time	1000
<b>Images</b>	
Number of configurable images	100
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	2,000 text elements
Fields per image	0
Date/time fields	30
Index of screen context	No
Return	Yes
Graphics object	Bit maps, icons, icon (full-screen)
Icons	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