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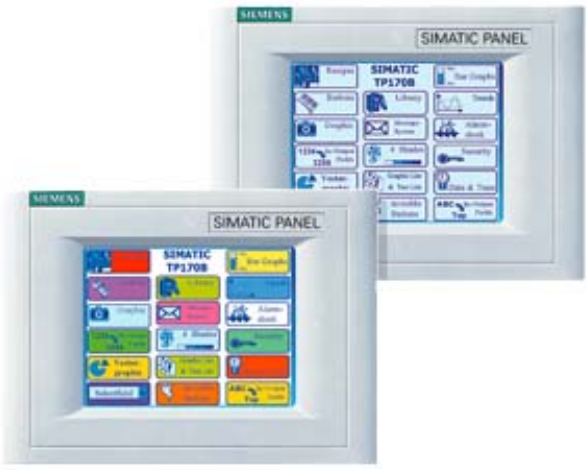
Product data sheet 6AV6545-0BC15-2AX0



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

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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

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

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

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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
Recipes	
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	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
Images	
Number of configurable images	100
Permanent window/default	Yes
Start screen configurable	Yes
Image selection by PLC	Yes
Image number in the PLC	Yes
Image objects	
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

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Icon (full screen)	50
Complex image objects	
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
Attributes for dynamic objects	
Color change	Yes
X/Y movement	Yes
Hide	Yes
Angle of turn	No
Lists	
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

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Number of entries per graphics list	255
Security	
Number of user groups	10
Password export/import	Yes
Data carrier support	
PC card	No
CF card	Yes
Diskette drive	No
Hard disk	No
CD-ROM	No
Logging through printer	
Recording/Printing	Alarms, report (shift report), color print
Transfer (upload/download)	
Transfer of configuration	MPI/PROFIBUS DP, serial, automatic transfer recognition
Process coupling	
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"
S7-200	Yes
PPI (point-to-point)	Yes
PPI network	No
MPI	Yes
PROFIBUS DP	Yes
S7-300/400	Yes
MPI	Yes
PROFIBUS DP	Yes
PROFINET	No
S5	Yes
serial	Yes
PROFIBUS DP	Yes
TI 505	Yes
Allen Bradley (DF1)	Yes
Allen Bradley (DF485)	No
Mitsubishi (FX)	Yes
Mitsubishi (MP4)	Yes
Telemechanique (ADJUST)	Yes
Telemecanique (Uni-Telway)	Yes
OMRON (LINK/Multilink)	No
Modicon (Modbus)	Yes

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GE-Fanuc (SNP)	Yes
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	Yes
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
Expandability/openness	
Open Platform Program	Yes
I/O / Options	
I/O devices	Printer
Multi Media Card	No
SD card	No
USB memory	No
Dimensions	
Front of enclosure (W x H)	212 mm x 156 mm
Weight	
Weight	0.7 kg
other	
free hotline	Yes
Warranty period	1 a
Status	Apr 23, 2013

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