SIEMENS

Data sheet 6AV6545-0CA10-0AX0

	Spare part SIMATIC TP 270 6" Touch panel 5.7" STN color display 2 MB configuration memory, configurable with ProTool From Version V6.0
Display	
Design of display	STN, 256 colors
Screen diagonal	5.7 in
Resolution (pixels)	
● Horizontal image resolution	320 pixel
● Vertical image resolution	240 pixel
Backlighting	
● MTBF backlighting (at 25 °C)	40 000 h
Control elements	
Control elements	Touch screen
Keyboard	
● Membrane keyboard	
— user-definable label membrane keys	No
● Numeric keyboard	Yes
● alphanumeric keyboard	Yes
● hexadecimal keyboard	Yes
● Multi-key operation	No
Touch operation	
● Design as touch screen	Yes; analog, resistive
Connection type	
● Type of connection for mouse/keyboard/barcode reader	USB / USB / USB
Special operator controls	
● Handwheel	No
Installation type/mounting	
Mounting position	vertical
maximum permissible angle of inclination without external ventilation	35°
Supply voltage	
UPS connectable (serial)	Yes
Input current	
Current consumption (rated value)	0.6 A
Power	
Active power input, typ.	15 W
Processor	
Processor type	RISC 32 bit
Storage	
Type of memory	Flash / RAM
Memory available for user data	2 048 kbyte
Battery	
Backup battery	
● Backup battery (optional)	Yes; optional 3.6 V
● Backup time, min.	3 a
Type of output	
Info LED	No
Power LED	No
Error LED	No
Time of day	
Clock	
● Type	Hardware clock, battery backup, synchronizable

Subject to change without notice
© Copyright Siemens

● retentive	Yes
● synchronizable	Yes
Interfaces	
Interfaces/bus type	2x RS 232, 1x RS 422, 1x RS 485 (max. 12 Mbit/s)
USB port	Yes; 1x USB
CF card slot	1x CF card slot
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
Standards, approvals, certificates	
Certificate of suitability	CE, GL, ABS, DNV, LRS, FM Class I Div. 2, UL, cULus, EX Zone 2/22, C-TICK
Ambient conditions	
Ambient temperature during storage/transportation	
● min.	-20 °C
● max.	60 °C
Relative humidity	
● Operation, max.	85 %
Operating systems	
pre-installed operating system	Windows CE
Configuration	
Configuration software	
● Configuration tool	ProTool Version 5 SP 3 or higher, or WinCC flexible Standard Version 2004 or 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
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	4 000
● Bit messages	Yes
— Number of bit messages	2 000
● Analog messages	Yes
— Number of analog messages	2 000
● Telegram message procedure Alarm S	Yes
● System messages HMI	Yes
● System messages PLC	No
● System event, more (SIMATIC S7, SINUMERIK, SIMOTION, ...)	No
● Lines	1
● Number of characters per message	70
● Number of process values per message	8
● Acknowledgment groups	Yes
● Message indicator	Yes
● acoustic feedback	No
● First/last value	Yes
Recipe management	
● Number of recipes	300
● Data records per recipe	500
● Entries per data record	1 000

© Copyright Siemens

● Recipe memory	64 KB integrated Flash, expandable
Variables	
● Number of variables per device	2 048
● Number of variables per screen	200
● Number of variables	2 048
● Type Date & Time	2 048
● Limit values	Yes
● Multiplexing	Yes
● Structures	Yes
Images	
● Number of configurable images	300
● Permanent window/default	Yes
● Start screen configurable	Yes
● Image selection by PLC	Yes
● Image number in the PLC	Yes
Image objects	
● Text objects	10 000 text elements
● Number of I/O fields per image	200
● Number of date/time fields	30
● Index of screen context	No
● Return	Yes
● Graphics object	Bit maps, icons, vector graphics
— Icons	1 000
— Icon (full screen)	0
Complex image objects	
● Status/control	With SIMATIC S7
● dynamic objects	Diagrams, bar graphs, invisible buttons
— Number of objects per project	500
— Number of curve diagrams per image	5
● Methods	Trend
● Bar graphs	
— Number of bars per chart	10
● Sliders	
— Number of slides per image	0
● Pointer instruments	
— Number of analog indicators per image	0
● Limit value lines	Yes
● Number of alphanumerical fields	1 000
— alphanumeric fields per image	100
● Number of numerical fields	1 000
— numerical fields per image	100
● Number of password fields	1 000
● Number of visible switches per project	1 000
— visible switches per image	100
— hidden switches per image	100
● Number of status switches per project	1 000
— Number of status switches per image	100
● Number of selector switches per project	1 000
— Selector switches per image	100
● Number of decade switches per project	0
— Decade switches per image	0
● Number of signal lamps per project	1 000
— Signal lamps per image	100
Attributes for dynamic objects	
● Color change	Yes
● X/Y movement	Yes
● Hide	Yes
● Angle of rotation	No
Lists	

© Copyright Siemens