## **SIEMENS**

## **Data sheet**

SIPLUS HMI TP700 Comfort based on 6AV2124-0GC01-0AX0 with conformal coating, 0...+50  $^{\circ}\text{C},$ 



Figure similar

General information	
Product type designation	TP700 Comfort
based on	6AV2124-0GC01-0AX0
Display	
Design of display	TFT
Screen diagonal	7 in
Display width	152.4 mm
Display height	91.4 mm
Number of colors	16 777 216
Resolution (pixels)	
Horizontal image resolution	800 pixel
Vertical image resolution	480 pixel
Backlighting	
MTBF backlighting (at 25 °C)	80 000 h
Backlight dimmable	Yes; 0-100 %
Control elements	
Keyboard fonts	
Function keys	
<ul> <li>Number of function keys</li> </ul>	0
<ul> <li>Number of function keys with LEDs</li> </ul>	0
<ul> <li>Keys with LED</li> </ul>	No
System keys	No
Numeric keyboard	Yes; Onscreen keyboard
alphanumeric keyboard	Yes; Onscreen keyboard
Touch operation	
Design as touch screen	Yes; Analog-resistive
Expansions for operator control of the process	
<ul> <li>DP direct LEDs (LEDs as S7 output I/O)</li> </ul>	
— F1Fx	0
<ul> <li>Direct keys (keys as S7 input I/O)</li> </ul>	
— F1Fx	0
<ul> <li>Direct keys (touch buttons as S7 input I/O)</li> </ul>	32
Installation type/mounting	
Mounting position	vertical
Wall mounting/direct mounting	No
Mounting in portrait format possible	Yes
Mounting in landscape format possible	Yes
maximum permissible angle of inclination without external ventilation	35°

Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, lower limit (DC)	28.8 V
Input current	20.0 V
	0.5 A
Current consumption (rated value) Starting current inrush I²t	0.5 A <sup>2</sup> ·s
Power	0.5 A <sup></sup> S
	40.14
Active power input, typ.	12 W
Processor	Voc
Processor type	X86
Memory	V
Flash	Yes
RAM	Yes
Memory available for user data	12 Mbyte
Type of output	
Info LED	No
Power LED	No
Error LED	No
Acoustics	
Buzzer	No
Speaker	Yes
Time of day	
Clock	
Hardware clock (real-time)	Yes
Software clock	No
• retentive	Yes; Back-up duration typically 6 weeks
synchronizable	Yes
Interfaces	
Number of industrial Ethernet interfaces	2
Number of RS 485 interfaces	1; RS 422 / 485 combined
Number of RS 485 interfaces Number of RS 422 interfaces	1; RS 422 / 485 combined 1
Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces	1; RS 422 / 485 combined 1 0
Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces	1; RS 422 / 485 combined 1 0 2; USB 2.0
Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces  • USB Mini B	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole
Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  • USB Mini B  Number of 20 mA interfaces (TTY)	1; RS 422 / 485 combined  1 0 2; USB 2.0 1; 5-pole 0
Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  • USB Mini B  Number of 20 mA interfaces (TTY)  Number of parallel interfaces	1; RS 422 / 485 combined  1 0 2; USB 2.0 1; 5-pole 0
Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  • USB Mini B  Number of 20 mA interfaces (TTY)  Number of parallel interfaces  Number of other interfaces	1; RS 422 / 485 combined  1 0 2; USB 2.0 1; 5-pole 0 0
Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  USB Mini B  Number of 20 mA interfaces (TTY)  Number of parallel interfaces  Number of other interfaces  Number of SD card slots	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 2
Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  USB Mini B  Number of 20 mA interfaces (TTY)  Number of parallel interfaces  Number of other interfaces  Number of SD card slots  With software interfaces	1; RS 422 / 485 combined  1 0 2; USB 2.0 1; 5-pole 0 0
Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  USB Mini B  Number of 20 mA interfaces (TTY)  Number of parallel interfaces  Number of other interfaces  Number of SD card slots  With software interfaces  Industrial Ethernet	1; RS 422 / 485 combined  1 0 2; USB 2.0 1; 5-pole 0 0 0 No
Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  USB Mini B  Number of 20 mA interfaces (TTY)  Number of parallel interfaces  Number of other interfaces  Number of SD card slots  With software interfaces  Industrial Ethernet  Industrial Ethernet status LED	1; RS 422 / 485 combined  1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No
Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  USB Mini B  Number of 20 mA interfaces (TTY)  Number of parallel interfaces  Number of other interfaces  Number of SD card slots  With software interfaces  Industrial Ethernet  Industrial Ethernet status LED  Number of ports of the integrated switch	1; RS 422 / 485 combined  1 0 2; USB 2.0 1; 5-pole 0 0 0 2
Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  USB Mini B  Number of 20 mA interfaces (TTY)  Number of parallel interfaces  Number of other interfaces  Number of SD card slots  With software interfaces  Industrial Ethernet  Industrial Ethernet status LED  Number of ports of the integrated switch	1; RS 422 / 485 combined  1 0 2; USB 2.0 1; 5-pole 0 0 2 No
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Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  USB Mini B  Number of 20 mA interfaces (TTY)  Number of parallel interfaces  Number of other interfaces  Number of SD card slots  With software interfaces  Industrial Ethernet  Industrial Ethernet status LED  Number of ports of the integrated switch  Protocols  PROFINET  Supports protocol for PROFINET IO  IRT  PROFIBUS	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No  Yes Yes Yes, As of WinCC V12 Yes
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Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  USB Mini B  Number of 20 mA interfaces (TTY)  Number of parallel interfaces  Number of other interfaces  Number of SD card slots  With software interfaces  Industrial Ethernet  Industrial Ethernet status LED  Number of ports of the integrated switch  Protocols  PROFINET  Supports protocol for PROFINET IO  IRT  PROFIBUS  EtherNet/IP  MPI  Protocols (Ethernet)  TCP/IP  DHCP  SNMP  DCP  LLDP  WEB characteristics	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 Yes
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• HTML	Yes
• XML	No
• CSS	Yes
<ul> <li>Active X</li> </ul>	No
<ul> <li>JavaScript</li> </ul>	Yes
• Java VM	No
Redundancy mode	
Media redundancy	
— MRP	Yes; As of WinCC V12
Further protocols	
• CAN	No
• MODBUS	Yes
Interrupts/diagnostics/status information	
Diagnoses	
<ul> <li>Diagnostic information readable</li> </ul>	Yes; S7 controller
EMC	
Emission of radio interference acc. to EN 55 011	
• Limit class A, for use in industrial areas	Yes
<ul> <li>Limit class B, for use in residential areas</li> </ul>	No
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
NEMA (front)	
<ul> <li>Enclosure Type 4 at the front</li> </ul>	Yes
• Enclosure Type 4x at the front	Yes
Ambient conditions	
Suited for indoor use	Yes
Suited for outdoor use	No
Ambient temperature during operation	
Operation (vertical installation)	
— For vertical installation, min.	0 °C; = Tmin
<ul> <li>For vertical installation, max.</li> </ul>	50 °C; = Tmax
Operation (max. tilt angle)	
<ul> <li>At maximum tilt angle, min.</li> </ul>	0 °C; = Tmin
<ul> <li>At maximum tilt angle, max.</li> </ul>	40 °C; = Tmax
Operation (vertical installation, portrait format)	
<ul> <li>For vertical installation, min.</li> </ul>	0 °C; = Tmin
<ul> <li>For vertical installation, max.</li> </ul>	40 °C; = Tmax
Operation (max. tilt angle, portrait format)	
— At maximum tilt angle, min.	0 °C; = Tmin
— At maximum tilt angle, max.	35 °C; = Tmax
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Altitude during operation relating to sea level	
<ul> <li>Installation altitude above sea level, max.</li> </ul>	5 000 m
Ambient air temperature-barometric pressure-altitude	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
Relative humidity	
With condensation, tested in accordance with IEC 60068- 2-38, max.	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance	
Coolants and lubricants	
<ul> <li>Resistant to commercially available coolants and lubricants</li> </ul>	Yes; Incl. diesel and oil droplets in the air
Use in stationary industrial systems	
<ul> <li>to biologically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
<ul> <li>to chemically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); $^{\star}$
<ul> <li>to mechanically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3S4 incl. sand, dust, *

Use on ships/at sea	
<ul> <li>to biologically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
<ul> <li>to chemically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); $^{\star}$
<ul> <li>to mechanically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
<ul> <li>Against chemically active substances acc. to EN 60654-4</li> </ul>	Yes; Class 3 (excluding trichlorethylene)
<ul> <li>Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04</li> </ul>	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
Remark	
<ul> <li>Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04</li> </ul>	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating	
Coatings for printed circuit board assemblies acc. to EN 61086	Yes; Class 2 for high reliability
<ul> <li>Protection against fouling acc. to EN 60664-3</li> </ul>	Yes; Type 1 protection
<ul> <li>Military testing according to MIL-I-46058C, Amendment 7</li> </ul>	Yes; Discoloration of coating possible during service life
Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- CC-830A	Yes; Conformal coating, Class A
Operating systems	
proprietary	No
pre-installed operating system	
Windows CE	Yes
configuration / header	163
	Yes
Message indicator	
Alarm system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe management	Yes
Configuration software	AT.
STEP 7 Basic (TIA Portal)	No
STEP 7 Professional (TIA Portal)	No 
WinCC flexible Compact	No
WinCC flexible Standard	No
WinCC flexible Advanced	No
WinCC Basic (TIA Portal)	No
<ul> <li>WinCC Comfort (TIA Portal)</li> </ul>	Yes; from V11
<ul> <li>WinCC Advanced (TIA Portal)</li> </ul>	Yes; from V11
WinCC Professional (TIA Portal)	Yes; from V11
Languages	
Online languages	
<ul> <li>Number of online/runtime languages</li> </ul>	32
Project languages	
Languages per project     Functionality under WinCC (TIA Portal)	32
Libraries	Yes
	160
Applications/options  • Web browser	Yes
Pocket Word	Yes
Pocket Excel	Yes
POCKET EXCEI     PDF Viewer	
	Yes
Media Player     SIMATIC Wince SmeatServer	Yes
SIMATIC WinCC Sm@rtServer     SIMATIC WinCC Audit	Yes
SIMATIC WinCC Audit	Yes
Number of Visual Basic Scripts	Yes
Task planner	
• time-controlled	Yes
task-controlled	Yes

Help system	
Number of characters per info text	70
Message system	
Number of alarm classes	32
Bit messages	
<ul> <li>Number of bit messages</li> </ul>	4 000
Analog messages	
<ul> <li>Number of analog messages</li> </ul>	200
<ul> <li>S7 alarm number procedure</li> </ul>	Yes
System messages HMI	Yes
<ul> <li>System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)</li> </ul>	Yes
Number of characters per message	80
Number of process values per message	8
Acknowledgment groups	Yes
Message indicator	Yes
Message buffer	
— Number of entries	1 024
<ul> <li>Circulating buffer</li> </ul>	Yes
— retentive	Yes
— maintenance-free	Yes
Recipe management	
<ul> <li>Number of recipes</li> </ul>	300
Data records per recipe	500
Entries per data record	1 000
Size of internal recipe memory	2 Mbyte
Recipe memory expandable	Yes
Variables	
<ul> <li>Number of variables per device</li> </ul>	2 048
Number of variables per screen	400
Limit values	Yes
Multiplexing	Yes
Structures	Yes
• Arrays	Yes
Number of configurable images	500
Permanent window/default	Yes
Global image	Yes
Image selection by PLC	Yes
Image number in the PLC	Yes
Image objects	
Number of objects per image	400
Text fields	Yes
<ul><li>Text fields</li><li>I/O fields</li></ul>	Yes Yes
• I/O fields	Yes
<ul><li>I/O fields</li><li>Graphic I/O fields (graphics list)</li></ul>	Yes Yes
<ul><li>I/O fields</li><li>Graphic I/O fields (graphics list)</li><li>Symbolic I/O fields (text list)</li></ul>	Yes Yes Yes
<ul> <li>I/O fields</li> <li>Graphic I/O fields (graphics list)</li> <li>Symbolic I/O fields (text list)</li> <li>Date/time fields</li> </ul>	Yes Yes Yes Yes
<ul> <li>I/O fields</li> <li>Graphic I/O fields (graphics list)</li> <li>Symbolic I/O fields (text list)</li> <li>Date/time fields</li> <li>Switches</li> </ul>	Yes Yes Yes Yes Yes
<ul> <li>I/O fields</li> <li>Graphic I/O fields (graphics list)</li> <li>Symbolic I/O fields (text list)</li> <li>Date/time fields</li> <li>Switches</li> <li>Buttons</li> </ul>	Yes Yes Yes Yes Yes Yes Yes
<ul> <li>I/O fields</li> <li>Graphic I/O fields (graphics list)</li> <li>Symbolic I/O fields (text list)</li> <li>Date/time fields</li> <li>Switches</li> <li>Buttons</li> <li>Graphic display</li> </ul>	Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>I/O fields</li> <li>Graphic I/O fields (graphics list)</li> <li>Symbolic I/O fields (text list)</li> <li>Date/time fields</li> <li>Switches</li> <li>Buttons</li> <li>Graphic display</li> <li>Icons</li> </ul>	Yes
<ul> <li>I/O fields</li> <li>Graphic I/O fields (graphics list)</li> <li>Symbolic I/O fields (text list)</li> <li>Date/time fields</li> <li>Switches</li> <li>Buttons</li> <li>Graphic display</li> <li>Icons</li> <li>Geometric objects</li> </ul>	Yes
<ul> <li>I/O fields</li> <li>Graphic I/O fields (graphics list)</li> <li>Symbolic I/O fields (text list)</li> <li>Date/time fields</li> <li>Switches</li> <li>Buttons</li> <li>Graphic display</li> <li>Icons</li> <li>Geometric objects</li> </ul> Complex image objects	Yes
<ul> <li>I/O fields</li> <li>Graphic I/O fields (graphics list)</li> <li>Symbolic I/O fields (text list)</li> <li>Date/time fields</li> <li>Switches</li> <li>Buttons</li> <li>Graphic display</li> <li>Icons</li> <li>Geometric objects</li> </ul> Complex image objects <ul> <li>Number of complex objects per screen</li> </ul>	Yes
I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Buttons Graphic display Icons Geometric objects  Complex image objects Number of complex objects per screen Alarm view	Yes
I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Buttons Graphic display Icons Geometric objects  Complex image objects Number of complex objects per screen Alarm view Trend view	Yes
I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Buttons Graphic display Icons Geometric objects  Complex image objects  Number of complex objects per screen Alarm view Trend view User view	Yes
I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Buttons Graphic display Icons Geometric objects  Complex image objects Number of complex objects per screen Alarm view Trend view User view Status/control	Yes

System diagnostics view   Yes   Modia Pilipary   Yes   Silders   Yes   Silders   Yes   Silders   Yes   Pointer instruments   Yes   Annologyigal clock   Yes   Annologyigal clock   Yes   Annologyigal clock   Yes   Number of redx lists per project   Sou   Number of propose is as per project   Sou   Number of propose is as per project   Sou   Number of entires per text list   Sou   Sou   Number of entires per device   Sou   Number of entires per archive   Sou		
Bild ryaphs   Yes	<ul> <li>System diagnostics view</li> </ul>	Yes
Soliders   Yes	Media Player	Yes
Pointer instruments	Bar graphs	Yes
Analog/digital clock	• Sliders	Yes
Number of fact lists per project   500   Number of restricts per feet list   500   Number of restricts per project   500   Number of praphics lists per project   500   Number of praphics lists per project   500   Number of entires per graphics list   500   Number of entires per archive   20 000   Number of archives per device   50   Number of archives per device   400   Number of archives   400   Number of entires per archive   400   Number of entires per	<ul> <li>Pointer instruments</li> </ul>	Yes
Number of lext lists per rote list   500	Analog/digital clock	Yes
Number of graphics lists per project     Number of rentries per graphics list     Number of archives per device     Number of archives     Process value archive     Process value archive     Number of user archive     Number of users     Number of user groups     Number of user lights     Number	Lists	
Number of graphics list per project   500	<ul> <li>Number of text lists per project</li> </ul>	500
Archiving         500           Number of archives per device         50           Number of entries per archive         20 000           Number of entries per archive         Yes           Message archive         Yes           Process value archive         Yes           Archiving methods         Yes           — Sequential archive         Yes           — Short-term archive         Yes           — Memory card         Yes           — U.SB memory         Yes           — Ethernet         Yes           — Data storage fornat         Yes           — TXT         Yes           — TXT         Yes           — TXT         Yes           — TXT         Yes           — Number of user groups         50           Number of user groups         50           Number of users         50           Password export/import         Yes           * Password export/import         Yes           * Password export/import         Yes           * Report (shift tog)         Yes           * Hardcopy         Yes           * Export (shift tog)         Yes           * Export (shift tog)         Yes	<ul> <li>Number of entries per text list</li> </ul>	500
Number of archives per device   50   Number of entries per archive   20 000   Message archive   Yes   Process value archive   Yes   Archiving methods   Sequential archive   Yes   Short-term archive   Yes   Memory location   Memory cado   Message archive   Mess	<ul> <li>Number of graphics lists per project</li> </ul>	500
Number of archives per device   50   Number of entries per archive   20 000   Message archive   Yes   Process value archive   Yes   Archiving methods   Sequential archive   Yes   Archiving methods   Sequential archive   Yes   Short-term archive   Yes   Memory location   Memory coation   Memor	<ul> <li>Number of entries per graphics list</li> </ul>	500
Number of entries per archive     Nessage archive     Nessage archive     Neroses value archive     Neroses value archive     Nessage archiv		
Number of entries per archive     Nessage archive     Nessage archive     Nessage archive     Nerchiving methods     Sequential archive     Short-term archive     Nemony location     Memory location     Nemony card     Nemony card     Nemony location     Nemony location location     Nemony location location     Nemony location location     Nemony location location location location     Nemony loca	Number of archives per device	50
		20 000
● Process value archive         Yes           - Archiving methods         Yes           — Short-tern archive         Yes           • Memory Ceation         —           — List memory         Yes           — Ethemet         Yes           • Data storage format         —           — CSV         Yes           — TXT         Yes           — RDB         Yes           — RDB         Yes           — Number of user groups         50           • Number of user groups         50           • Number of user groups         50           • Number of users groups         50           • Number of users groups         50           • Number of users fights         32           • Number of users groups         50           • SIMATIC Logon         Yes           Logon         Yes           • Salmatic Logon         Yes           Logon through printer         • Alams           • Report (shift log)         Yes           • Report (shift log)         Yes           • Report (shift log)         Yes           • Logota (shift log)         Yes           • Logota (shift log)         Yes		Yes
Sequential archive yes Short-tern archive Yes Short-tern archive Yes Short-tern archive Yes Short-tern archive Yes Memory card Yes USB memory Yes USB memory Yes USB memory Yes USB memory Ethernet Yes TXT Y		Yes
Sequential archive yes Short-tern archive Yes Short-tern archive Yes Short-tern archive Yes Short-tern archive Yes Memory card Yes USB memory Yes USB memory Yes USB memory Yes USB memory Ethernet Yes TXT Y	Archiving methods	
- Short-term archive         Yes           • Memory location         Yes           — USB memory         Yes           — Eithernet         Yes           • Datas storage format         Fes           — CSV         Yes           — TXT         Yes           — RDB         Yes           Security         Fes           • Number of user groups         50           • Number of user rights         32           • Number of user rights         32           • Number of user sport (shift log)         Yes           • Password export/import         Yes           • SIMATIC Logon         Yes           Logging brough printer         Fes           • Logging brough printer         Yes           • Alarms         Yes           • Report (shift log)         Yes           • Report (shift log)         Yes           • Logging brough printer         Yes           • Report (shift log)	-	Yes
Memory card USB memory Ethernet Data storage format CSV TXT CSP TXT RDB -		
- USB memory - Ethernet - Casy - Casy - Casy - Casy - TXT - Casy	•	Yes
Elternet		
- Data storage format		
— CSV         — TXT         Yes           — RDB         Yes           Security           ● Number of user groups         50           ● Number of user rights         32           ● Number of users         50           ● Password export/import         Yes           ● SIMATIC Logon         Yes           Logging through printer         ************************************		
- TXT		Vac
Number of user groups		
Number of user groups		
• Number of user rights         32           • Number of users         50           • Password export/import         Yes           • SIMATIC Logon         Yes           Logging through printer         ****           • Alarms         Yes           • Report (shift log)         Yes           • Hardcopy         Yes           • Electronic print to file         Yes, PDF, HTML           ***Character sets***           • Keyboard fonts         ***           — US English         Yes           • MPI/PROFIBUS DP         Yes           • USB         Yes           • Ethernet         Yes           • Ethernet         Yes           • ST-1200         Yes           • ST-1500         Yes           • ST-200         Yes           • ST-200         Yes           • ST-300400         Yes           • UGGO!         Yes           • SINUMERIK         Yes; with SINUMERIK option package           • SINUMERIK         Yes; with SINUMERIK option package           • Allen Bradley (EtherNet/IP)         Yes           • Allen Bradley (EtherNet/IP)         Yes           • Misubishi (MC TCP/IP)         Yes		103
Number of user rights     Number of users     Number of users     Password export/import     SIMATIC Logon     Yes  Logging through printer      Alarms     Report (shift log)     Hardcopy     Heardcopy     Electronic print to file  Character sets     Neyboard forts     — US English     Yes      Lethernet     UsB     Elthernet     Using external storage medium  Process coupling      S7-1200     Yes     S7-200     Yes     S7-300/400     S7-300/400     LOGOI     WinAC     SINUMERIK		50
• Number of users         50           • Password export/import         Yes           • SIMATIC Logon         Yes           Logging through printer         Tes           • Alarms         Yes           • Report (shift log)         Yes           • Hardcopy         Yes           • Electronic print to file         Yes, PDF, HTML           Character sets           • Keyboard fonts         Tes           — US English         Yes           • Keyboard fonts         Yes           — US English         Yes           • LOSB         Yes           • USB         Yes           • Ethernet         Yes           • Losh part all storage medium         No           Process coupling           • S7-1200         Yes           • S7-1200         Yes           • S7-200         Yes           • S7-200         Yes           • S7-300/400         Yes           • UGGOI         Yes           • WinAC         Yes           • SINUMERIK         Yes; with SINUMERIK option package           • SINUTION         No; With WinCC, subsequent version           • Allen Bradley (EtherNet/IP)		
● Password export/import         Yes           • SIMATIC Logon         Yes           Logging through printer         ***           ● Alarms         Yes           • Report (shift log)         Yes           • Hardcoppy         Yes           • Electronic print to file         Yes           Character sets         ***           — US English         Yes           — US English         Yes           • WPPROFIBUS DP         Yes           • USB         Yes           • Ethernet         Yes           • using external storage medium         No           Process coupling         ***           • \$7-1200         Yes           • \$7-200         Yes           • \$7-300/400         Yes           • LOGO!         Yes           • WinAC         Yes           • SINUMERIK         Yes           • SINOTION         No; With WinCC, subsequent version           • Allen Bradley (EtherNet/IP)         Yes           • Mitsubishi (MC TCP/IP)         Yes           • Mitsubishi (FX)         Yes           • OMRON (FINS TCP)         No	-	
Logging through printer           ○ Alarms         Yes           ○ Report (shift log)         Yes           ○ Hardcopy         Yes           ○ Electronic print to file         Yes; PDF, HTML           Character sets           ○ Keyboard fonts         Festaglish           ─ US English         Yes           Transfer (upload/download)           ○ MPUPROFIBUS DP         Yes           ○ USB         Yes           ○ Ethernet         Yes           ○ Loracter sets         Yes           ○ Ethernet         Yes           ○ sor-1500         Yes           ○ \$7-1200         Yes           ○ \$7-200         Yes           ○ \$7-200         Yes           ○ \$7-200         Yes           ○ \$7-300/400         Yes           ○ \$10GO!         Yes           ○ \$10MDERIK         Yes           ○ \$10MDERIK         Yes; with \$10MMERIK option package           ○ \$1MOTION         No; With WincC, subsequent version           ○ Allen Bradley (EtherNet/IP)         Yes           ○ Allen Bradley (EtherNet/IP)         Yes           ○ Mitsubishi (MC TCP/IP)         Yes           ○ MISsubishi (FX)		
Logging through printer           ● Alarms         Yes           ● Report (shift log)         Yes           ● Hardcopy         Yes           ● Electronic print to file         Yes; PDF, HTML           Character sets           English         Yes           — US English         Yes           — US English         Yes           — US English         Yes           ■ WIPPROFIBUS DP         Yes           ● USB         Yes           ● Ethernet         Yes           ● Libernet         Yes           ● ST-1200         Yes           ● S7-1500         Yes           ● S7-200         Yes           ● ST-300/400         Yes           ● UGGO!         Yes           ● WinAC         Yes           ● SINUMERIK         Yes; with SINUMERIK option package           ● SIMOTION         No; With WinCC, subsequent version           ● Allen Bradley (EtherNet/IP)         Yes           ● Allen Bradley (DF1)         Yes           ● Mitsubishi (FX)         Yes           ● Mitsubishi (FX)         Yes           ● Mitsubishi (FX)         Yes           ● OMRON (FINSTCP)         No		
● Alarms         Yes           ● Report (shift log)         Yes           ● Hardcopy         Yes           ● Electronic print to file         Yes; PDF, HTML           Character sets           ■ Keyboard fonts           — US English         Yes           ■ PMI/PROFIBUS DP           ● MPI/PROFIBUS DP         Yes           ● Libernet         Yes           ● Ethernet         Yes           ● using external storage medium         No           Process coupling           S7-1200         Yes           ● S7-1500         Yes           ● S7-200         Yes           ● LOGO!         Yes           ● LOGO!         Yes           ● SINUMERIK         Yes; with SINUMERIK option package           ● SINUTION         No; With WinCC, subsequent version           ● Allen Bradley (EtherNet/IP)         Yes           ● Allen Bradley (DF1)         Yes           ● Mitsubishi (MC TCP/IP)         Yes           ● Mitsubishi (FX)         Yes           ● OMRON (FINS TCP)         No		165
• Report (shift log)         Yes           • Hardcopy         Yes           • Electronic print to file         Yes; PDF, HTML           Character sets           • Keyboard fonts         - US English           — US English         Yes           Transfer (upload/download)           • MPI/PROFIBUS DP         Yes           • USB         Yes           • Ethernet         Yes           • using external storage medium         No           Process coupling           • S7-1200         Yes           • S7-1500         Yes           • S7-300/400         Yes           • LOGO!         Yes           • WinAC         Yes           • SINUMERIK         Yes; with SINUMERIK option package           • SIMOTION         No; With WinCC, subsequent version           • Allen Bradley (EtherNet/IP)         Yes           • Allen Bradley (DF1)         Yes           • Mitsubishi (MC TCP/IP)         Yes           • Mitsubishi (FX)         Yes           • OMRON (FINS TCP)         No		Vac
• Hardcopy • Electronic print to file  Character sets  • Keyboard fonts — US English  Transfer (upload/download)  • MPI/PROFIBUS DP • USB • Ethermet • using external storage medium  S7-1200 • S7-1200 • S7-1200 • S7-200 • S7-300/400 • S7-300/400 • LOGO! • WinAC • SINUMERIK • SINUMERIK • SIMOTION • Allen Bradley (EtherNet/IP) • Mitsubishi (MC TCP/IP) • Mitsubishi (MC TCP/IP) • Mitsubishi (MC TCP/IP) • Mitsubishi (FX) • OMRON (FINS TCP)		
◆ Electronic print to file         Yes; PDF, HTML           Character sets         Ckeyboard fonts           — US English         Yes           Transfer (upload/download)           ● MPI/PROFIBUS DP         Yes           ● USB         Yes           ● Ethernet         Yes           ● using external storage medium         No           Process coupling           ● \$7-1200         Yes           ● \$7-200         Yes           ● \$7-200         Yes           ● \$7-300/400         Yes           ● LOGO!         Yes           ● WinAC         Yes           ● SINUMERIK         Yes; with SINUMERIK option package           ● SIMOTION         No; With WinCC, subsequent version           ● Allen Bradley (EtherNet/IP)         Yes           ● Allen Bradley (DF1)         Yes           ● Mitsubishi (MC TCP/IP)         Yes           ● Mitsubishi (FX)         Yes           ● OMRON (FINS TCP)         No		
Character sets           • Keyboard fonts         Yes           — US English         Yes           Transfer (upload/download)           • MPI/PROFIBUS DP         Yes           • USB         Yes           • Ethernet         Yes           • using external storage medium         No           Process coupling           • S7-1200         Yes           • S7-1500         Yes           • S7-200         Yes           • S7-300/400         Yes           • LOGOI         Yes           • WinAC         Yes           • SINUMERIK         Yes; with SINUMERIK option package           • SIMOTION         No; With WinCC, subsequent version           • Allen Bradley (EtherNet/IP)         Yes           • Allen Bradley (DF1)         Yes           • Mitsubishi (MC TCP/IP)         Yes           • Mitsubishi (FX)         Yes           • OMRON (FINS TCP)         No		
● Keyboard fonts         Yes           Transfer (upload/download)           ● MPI/PROFIBUS DP         Yes           ● USB         Yes           ● Ethernet         Yes           ● using external storage medium         No           Process coupling           ● \$7-1200         Yes           ● \$7-1500         Yes           ● \$7-200         Yes           ● \$7-300/400         Yes           ● LOGO!         Yes           ● WinAC         Yes           ● SINUMERIK         Yes; with SINUMERIK option package           ● SIMOTION         No; With WinCC, subsequent version           ● Allen Bradley (EtherNet/IP)         Yes           ● Mitsubishi (MC TCP/IP)         Yes           ● Mitsubishi (FX)         Yes           ● OMRON (FINS TCP)         No		Yes; PDF, HTML
—US English         Yes           Transfer (upload/download)         Yes           ● MPI/PROFIBUS DP         Yes           ● USB         Yes           ● Ethernet         Yes           ● using external storage medium         No           Process coupling           ● S7-1200         Yes           ● S7-1500         Yes           ● S7-200         Yes           ● S7-300/400         Yes           ● LOGO!         Yes           ● WinAC         Yes           ● SINUMERIK         Yes; with SINUMERIK option package           ● SIMOTION         No; With WinCC, subsequent version           ● Allen Bradley (EtherNet/IP)         Yes           ● Allen Bradley (DF1)         Yes           ● Mitsubishi (MC TCP/IP)         Yes           ● Mitsubishi (FX)         Yes           ● OMRON (FINS TCP)         No		
Transfer (upload/download)           ● MPI/PROFIBUS DP         Yes           ● USB         Yes           ● Ethernet         Yes           ● using external storage medium         No           Process coupling           ● S7-1200         Yes           ● S7-1500         Yes           ● S7-200         Yes           ● S7-200         Yes           ● LOGO!         Yes           ● WinAC         Yes           ● SINUMERIK         Yes; with SINUMERIK option package           ● SIMOTION         No; With WinCC, subsequent version           ● Allen Bradley (EtherNet/IP)         Yes           ● Allen Bradley (DF1)         Yes           ● Mitsubishi (MC TCP/IP)         Yes           ● Mitsubishi (FX)         Yes           ● OMRON (FINS TCP)         No		
● MPI/PROFIBUS DP         Yes           ● USB         Yes           ● Ethernet         Yes           ● using external storage medium         No           Process coupling           ● S7-1200         Yes           ● S7-1500         Yes           ● S7-200         Yes           ● S7-300/400         Yes           ● LOGO!         Yes           ● WinAC         Yes           ● SINUMERIK         Yes; with SINUMERIK option package           ● SIMOTION         No; With WinCC, subsequent version           ● Allen Bradley (EtherNet/IP)         Yes           ● Allen Bradley (DF1)         Yes           ● Mitsubishi (MC TCP/IP)         Yes           ● Mitsubishi (FX)         Yes           ● OMRON (FINS TCP)         No		Yes
● USB         Yes           ● Ethernet         Yes           ● using external storage medium         No           Process coupling           ● S7-1200         Yes           ● S7-1500         Yes           ● S7-200         Yes           ● S7-300/400         Yes           ● LOGO!         Yes           ● WinAC         Yes           ● SINUMERIK         Yes; with SINUMERIK option package           ● SIMOTION         No; With WinCC, subsequent version           ● Allen Bradley (EtherNet/IP)         Yes           ● Allen Bradley (DF1)         Yes           ● Mitsubishi (MC TCP/IP)         Yes           ● Mitsubishi (FX)         Yes           ● OMRON (FINS TCP)         No		
● Ethernet         Yes           ● using external storage medium         No           Process coupling           ● S7-1200         Yes           ● S7-1500         Yes           ● S7-200         Yes           ● S7-300/400         Yes           ● LOGO!         Yes           ● WinAC         Yes           ● SINUMERIK         Yes; with SINUMERIK option package           ● SIMOTION         No; With WinCC, subsequent version           ● Allen Bradley (EtherNet/IP)         Yes           ● Allen Bradley (DF1)         Yes           ● Mitsubishi (MC TCP/IP)         Yes           ● Mitsubishi (FX)         Yes           ● OMRON (FINS TCP)         No		
● using external storage medium         No           Process coupling           ● S7-1200         Yes           ● S7-1500         Yes           ● S7-200         Yes           ● S7-300/400         Yes           ● LOGO!         Yes           ● WinAC         Yes           ● SINUMERIK         Yes; with SINUMERIK option package           ● SIMOTION         No; With WinCC, subsequent version           ● Allen Bradley (EtherNet/IP)         Yes           ● Allen Bradley (DF1)         Yes           ● Mitsubishi (MC TCP/IP)         Yes           ● Mitsubishi (FX)         Yes           ● OMRON (FINS TCP)         No		
Process coupling           ● S7-1200         Yes           ● S7-1500         Yes           ● S7-200         Yes           ● S7-300/400         Yes           ● LOGO!         Yes           ● WinAC         Yes           ● SINUMERIK         Yes; with SINUMERIK option package           ● SIMOTION         No; With WinCC, subsequent version           ● Allen Bradley (EtherNet/IP)         Yes           ● Allen Bradley (DF1)         Yes           ● Mitsubishi (MC TCP/IP)         Yes           ● Mitsubishi (FX)         Yes           ● OMRON (FINS TCP)         No		
<ul> <li>\$7-1200</li> <li>\$7-1500</li> <li>\$7-200</li> <li>\$7-200</li> <li>\$7-300/400</li> <li>\$Yes</li> <li>\$LOGO!</li> <li>\$WinAC</li> <li>\$SINUMERIK</li> <li>\$SIMOTION</li> <li>\$Allen Bradley (EtherNet/IP)</li> <li>\$Allen Bradley (DF1)</li> <li>\$Mitsubishi (MC TCP/IP)</li> <li>\$Mitsubishi (FX)</li> <li>\$OMRON (FINS TCP)</li> </ul>		No
<ul> <li>\$7-1500</li> <li>\$7-200</li> <li>\$7-300/400</li> <li>\$Yes</li> <li>\$LOGO!</li> <li>\$WinAC</li> <li>\$SINUMERIK</li> <li>\$SIMOTION</li> <li>\$Allen Bradley (EtherNet/IP)</li> <li>\$Allen Bradley (DF1)</li> <li>\$Mitsubishi (MC TCP/IP)</li> <li>\$Mitsubishi (FX)</li> <li>\$OMRON (FINS TCP)</li> </ul>		
<ul> <li>\$7-200</li> <li>\$7-300/400</li> <li>LOGO!</li> <li>WinAC</li> <li>\$SINUMERIK</li> <li>\$SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>No; With WinCC, subsequent version</li> <li>Yes</li> <li>Yes</li> <li>No</li> </ul>		
<ul> <li>\$7-300/400</li> <li>LOGO!</li> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> </ul> Yes <ul> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul> Yes <ul> <li>Yes</li> <li>No</li> </ul> Yes <ul> <li>No</li> </ul>		
<ul> <li>LOGO!</li> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> </ul> Yes <ul> <li>Yes</li> <li>Yes</li> </ul> Yes <ul> <li>No</li> </ul>		
<ul> <li>WinAC</li> <li>SINUMERIK</li> <li>Yes; with SINUMERIK option package</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> </ul> Yes Yes No		
<ul> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>Yes; with SINUMERIK option package</li> <li>No; With WinCC, subsequent version</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>No</li> </ul>		
<ul> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>No</li> </ul>		Yes
<ul> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> </ul> Yes <ul> <li>No</li> </ul>		
<ul> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> </ul> Yes No	• SIMOTION	No; With WinCC, subsequent version
<ul> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>Yes</li> <li>No</li> </ul>	<ul> <li>Allen Bradley (EtherNet/IP)</li> </ul>	Yes
<ul><li>Mitsubishi (FX)</li><li>OMRON (FINS TCP)</li><li>Yes</li><li>No</li></ul>	<ul> <li>Allen Bradley (DF1)</li> </ul>	Yes
OMRON (FINS TCP)  No	Mitsubishi (MC TCP/IP)	Yes
	<ul> <li>Mitsubishi (FX)</li> </ul>	Yes
OMRON (LINK/Multilink)     Yes	OMRON (FINS TCP)	No
	OMRON (LINK/Multilink)	Yes

<ul> <li>Modicon (Modbus TCP/IP)</li> </ul>	Yes
Modicon (Modbus)	Yes
Service tools/configuration aids	
<ul> <li>Backup/Restore manually</li> </ul>	Yes
<ul> <li>Backup/Restore automatically</li> </ul>	Yes
<ul> <li>Simulation</li> </ul>	Yes
Device switchover	Yes
Peripherals/Options	
Printer	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes
SIMATIC HMI SD memory card: Secure Digital memory card	Yes
USB memory	Yes
Mechanics/material	
Enclosure material (front)	
Enclosure material (front)  • Plastic	No
, ,	No Yes
• Plastic	
<ul><li>Plastic</li><li>Aluminum</li></ul>	Yes
<ul><li>Plastic</li><li>Aluminum</li><li>Stainless steel</li></ul>	Yes
<ul><li>Plastic</li><li>Aluminum</li><li>Stainless steel</li><li>Dimensions</li></ul>	Yes No
<ul> <li>Plastic</li> <li>Aluminum</li> <li>Stainless steel</li> </ul> Dimensions Width of the housing front	Yes No 214 mm
Plastic Aluminum Stainless steel  Dimensions  Width of the housing front Height of housing front	Yes No 214 mm 158 mm
Plastic Aluminum Stainless steel  Dimensions  Width of the housing front Height of housing front Mounting cutout, width	Yes No  214 mm 158 mm 197 mm
Plastic Aluminum Stainless steel  Dimensions  Width of the housing front Height of housing front Mounting cutout, width Mounting cutout, height	Yes No  214 mm 158 mm 197 mm 141 mm
Plastic Aluminum Stainless steel  Dimensions Width of the housing front Height of housing front Mounting cutout, width Mounting cutout, height Overall depth	Yes No  214 mm 158 mm 197 mm 141 mm

	Version	Classification
eClass	14	27-33-02-01
eClass	12	27-33-02-01
eClass	9.1	27-33-02-01
eClass	9	27-33-02-01
eClass	8	27-24-23-02
eClass	7.1	27-24-23-02
eClass	6	27-24-23-02
ETIM	9	EC001412
ETIM	8	EC001412
ETIM	7	EC001412
IDEA	4	6607
UNSPSC	15	43-21-15-06

Approvals / Certificates

Classifications

**General Product Approval EMV** 

Miscellaneous

Manufacturer Declaration







<u>KC</u>

EMV

For use in hazardous locations







CCC-Ex

last modified: