## SIEMENS

## Data sheet

## 6AG1124-0GC13-2AX0



SIPLUS HMI TP700 Comfort Outdoor based on 6AV2124-0GC13-0AX0 with conformal coating, -30...+60 °C, Comfort Panel, touch operation, 7" widescreen TFT display, 16 million colors, PROFINET interfaces, MPI/PROFIBUS DP interface, 12 MB configuration memory, Windows CE 6.0, configurable as of WinCC Comfort V13 SP1, HSP

Figuresimilar

General information	
Product type designation	TP700 Comfort Outdoor
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)	
<ul> <li>Horizontal image resolution</li> </ul>	800 pixel
<ul> <li>Vertical image resolution</li> </ul>	480 pixel
Backlighting	
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	50 000 h
Backlight dimmable	Yes; LED, can be dimmed manually or automatically
Control elements	
Keyboard fonts	
<ul> <li>Function keys</li> </ul>	
<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
<ul> <li>System keys</li> </ul>	No
<ul> <li>Numeric keyboard</li> </ul>	Yes; Onscreen keyboard
<ul> <li>alphanumeric keyboard</li> </ul>	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
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, upper limit (DC) 28.8 V Four survey in runs h P( 0.7 Å Starting current in runs h P( 0.5 Å*s Processor type X88 Memory variable for user data 78 Ves Filah Yes RAM Yes RAM Yes RAM Yes Arbor yalable for user data 12 bbyte Type of output Info LED No Power Power LED NO Power POWER Power POWER POWE	permissible range, lower limit (DC)	19.2 V
System         2           Current consumption (rated value)         0.7 Å           Starting current invash rt         0.5 A*s           Power		
Current consumption (inter value)     0.7.4       Starting current invush Pt     0.5.47 s       Processor     ************************************		
Stating current innum Pt         0.5.4*s           Power		0.7.4
Power         IT           Active power input, typ.         17 W           Processor type         X86           Memory         Processor type           Processor type         X86           Memory variable for user data         12 Mayte           Flash         Yes           RAM         Yes           RAM         Yes           RAM         Yes           RAM         Yes           RAM         Yes           Into LED         No           Power LED         No           - Sopaker         Yes           - Sopaker         Yes           - Intoreactock (real-line)         Yes           - Software clock         No           - Software clock         No           - Software clock         Yes           Interfaces         2           Number of RS 22 interfaces         1           Number of RS 22 interfaces         1           Number of RS 22 interfaces         1           Number of SS 22 interfaces         1           Number of RS 22 interfaces         1           Number of RS 22 interfaces         1           Number of SS 22 interfaces         1		
Adite power input, typ.     17 W       Processor     X86       Percessor type     X86       Memory     Flash       RAM     Yes       Power LED     No       Error LED     No       Acoustics     No       • Buzzer     No       • Spaker     Yes       Software clock     No       • Indravere dock (real-line)     Yes       • Software clock     No       • Indravere dock (real-line)     Yes       • Software clock     Yes       • Indravere dock (real-line)     Yes       • Number of Industrial Element interfaces     2       Number of RS 422 interfaces     1       Number of RS 423 interfaces     1       Number of RS 425 interfaces     0       Number of RS 10 interfaces     0       Number of Pont interface	-	
Processor type         X86           Processor type         X86           Memory         Yes           Flash         Yes           Memory available for user data         12 Mbyte           Type of output         Info LED           Info LED         No           Power LED         No           Error LED         No           Acoustics         -           • Buzzer         No           Software clock (real-time)         Yes           • Start Clock         No           • Software clock (real-time)         Yes           • Software clock         No           Number of R 485 interfaces         1      <		47 \\
Processor type         X88           Memory         Flash         Yes           RAM         Yes           RAM         Yes           Memory available for user data         12 Mbyte           Type of output         No           Info LED         No           Power LED         No           - Buzzer         No           - Speaker         Yes           Storkare clock (real-line)         Yes           - Speaker         Yes           Software clock (real-line)         Yes           - Software clock         No           - Tetentive         Yes           - Software clock (real-line)         Yes           - Software clock (real-line)         Yes           Number of RS 445 interfaces         1, RS 422 / 485 combined           Number of Staftaces         0           Number of Staftaces         0		17 W
Memory     Yes       Flash     Yes       RAM     Yes       Memory available for user data     12 Mbyte       Type of output     Info LED       Info LED     No       Power LED     No       Acoustics     No       • Buzzer     No       • Software clock (real-line)     Yes       Inte of aty     Telentary       Clock     No       • Inder day     Yes       Clock     No       • Software clock (real-line)     Yes       • Number of Industrial Ethernet interfaces     2       Number of Industrial Ethernet interfaces     1       Number of St 485 interfaces     1       Number of St 485 interfaces     1       Number of St 485 interfaces     2       Number of St 485 interfaces     1       Number of St 485 interfaces     1       Number of St 222 Interfaces     1       Number of St 232 Interfaces     1       Number of St 322 Interfaces     1       Number of St 485 Interfaces     2       USB Interfaces     2       USB Interfaces     1       Number of Damaile Interfaces     1       Number of Damaile Interfaces     2       Number of Damainterfaces (TTY)     0       Number		Voo
Fish     Yes       RAM     Yes       RAM     Yes       Memory available for user data     12 Mbyte       Type of output     Into LED       No     No       Power LED     No       Acoustics     No       • Buzzer     No       • Speaker     Yes       Clock     •       • Hardware clock (real-time)     Yes       • Speaker     Yes       Clock     •       • Hardware clock (real-time)     Yes       • Speaker     Yes       Interfaces     2       Number of RS 425 interfaces     1       Number of RS 422 interfaces     1       Number of RS 422 interfaces     1       Number of RS 422 interfaces     0       Number of RS 232 interfaces     0       Number of RS 232 interfaces     0       Number of RS 232 interfaces     0       Number of RS 242 interfaces     0       Number of RDA interfaces (TTY)     0       Number of RDA interfaces     2       • USB Mini B     1; 5-pole       Number of RDA interfaces     0       Number of RDA interfaces     0       Number of RDA interfaces     0       Number of RDA interfaces     2       • FORDELIN	51	X86
FAMYesMemory available for user data12 MayteType of outputNoInfo. LEDNoPower LEDNoEncor LEDNoAcoustics BuzzerNoSpaakerYesThe of day-Clock BuzzerNo- Software clock (real-time)Yes- Software clock (real-time)Yes. Back-up duration typically 6 weeks- software clock (real-time)Yes.Number of Rot statis Ethernet interfaces0Number of Statis functiones1. RS 422 / 485 combinedNumber of Statis functiones1. RS 422 / 485 combinedNumber of Statis functiones2. USB 2.0Number of Statis functiones1. RS 422 / 485 combinedNumber of Statis functiones2. USB 2.0Number of Statis functiones2. USB 2.0N		
Memory available for user data12 MbyteType of outputNoInfo LEDNoPower LEDNoPower LEDNoAcousticsYes• BuzzerNo• SpeakerYesTime of anyClock• Hardware clock (real-time)Yes• Hardware clock (real-time)Yes• SpeakerYesTime of clockNo• retentiveYes• Software clock (real-time)Yes• Number of industrial Ethernet Interfaces2Retraces1Number of RS 422 interfaces1Number of RS 422 interfaces1Number of RS 422 interfaces2• USB Mini B1, 5-poleNumber of SD and slottsfaces2, USB 2.0• USB Mini B1, 5-poleNumber of SD card slots2Number of SD card slots2Number of SD card slots2Number of SD card slots2PROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYes<		
Type of output         No           Info LED         No           Power LED         No           Acoustics         No           • Buzzer         No           • Buzzer         No           • Speaker         Yes           Clock         Ves           • Hardware clock (real-lime)         Yes           • refertive         Yes. Back-up duration typically 6 weeks           • synchronizable         Yes           Interfaces         Interfaces           Number of RS 455 interfaces         1. RS 422 / 455 combined           Number of RS 455 interfaces         1           Number of RS 425 interfaces         0           Number of RS 425 interfaces         1           Number of RS 425 interfaces         0           Number of RS 425 interfaces         0           Number of RS 425 interfaces         0           Number of S 426 interfaces         0 <td></td> <td></td>		
Info LED     No       Power LED     No       Error LED     No       Acoustics     No       • Buzzer     No       • Speaker     Yes       Time of day     Clock       • Hardware clock (real-time)     Yes       • retentive     Yes. Back-up duration typically 6 weeks       • spichtronizable     Yes       Number of RS 445 interfaces     1       Number of RS 425 interfaces     0       Number of RS 221 interfaces     1       Number of RDS interfaces     0       Number of DS 223 interfaces     0       Number of DS 242 interfaces     1       Number of DS card slots     2       • USB Mini B     1; 5-pole       Number of Dacard slots     2       With software interfaces     0       Number of Dacard slots     2       • Industrial Ethernet status LED     2       • Number of ports of the integrated switch     2       Protocis     Yes       PROFINET     Yes       Supports protocol for PROFINET IO     Yes       PROFIBUS     Yes		12 Mbyle
Prover LEDNoError LEDNoAcousticsNo• BuzzerNo• SpeakerYesTime of dayYesClockNo• Hardware clock (real-time)Yes; Back-up duration typically 6 weeks• synchronizableYes; Back-up duration typically 6 weeks• Number of Industral Ethernet Interfaces2Number of RS 422 interfaces0Number of RS 232 interfaces0Number of SS 243 interfaces0Number of SS 243 interfaces0Number of S		
Error LEDNoAcousticsNo• BuzzerNo• SpeakerYesTime of dayClockVes• Software clock (real-line)Yes• Software clock (real-line)Yes, Back-up duration typically 6 weeks• software clockNo• etentiveYes, Back-up duration typically 6 weeks• software clock in the fraces2• Number of Industrial Ethernet interfaces2• Number of RS 422 Interfaces1Number of RS 422 Interfaces1Number of RS 422 Interfaces2• USB Interfaces2• USB Interfaces2• USB Interfaces2• USB Interfaces2• USB Interfaces0Number of Darallel interfaces0Number of Daral Islos2• Industrial Ethernet Istaus LED2• Industrial Ethernet Istaus LED2• Number of Daral Islos2PROFIBUSYesPROFIBUSYesPROFIBUSYesPROFIBUSYes• DICIPYes• DICIPYes• DICIPYes• DICIPYes• DICIPYes• ULDP <t< td=""><td></td><td></td></t<>		
Acoustics     No          • Epacker     Yes       The of day         Clock            • Iardware clock (real-time)       Yes          • Software clock (real-time)       Yes          • etentive       Yes          • synchronizable       Yes          Number of RS 420 interfaces       2          Number of RS 420 interfaces       1. RS 422 / 485 combined          Number of RS 420 interfaces       0          Number of RS 420 interfaces       1. Spoie          Number of RS 420 interfaces       0          Number of RS 420 interfaces       0          Number of DS 220 interfaces       0          Number of Daralle interfaces       0          Number of 20 mA interfaces       0          Number of Daralle interfaces       0          Number of Daral interfaces       0          Number of Daral interfaces       0          Number of Ports of the integrated switch       2          • Industrial Ethernet status LED       2          • Number of ports of the integrated switch       2          Number of Ports of the integrated switch       2          PROFINET       Yes		
• BuzzerNo• SpeakerYesClock-• Iardware clock (real-time)Yes• Software clock (real-time)Yes• total clock (real-time)Yes• total clock (real-time)Yes• total clock (real-time)YesNumber of RS 485 interfaces1Number of RS 422 interfaces1Number of RS 422 interfaces0Number of RS 232 interfaces0Number of RS 232 interfaces0Number of SS 32 interfaces0Number of SS 32 interfaces0Number of SD card slots2Number of SD card slots2Number of SD card slots2• industrial Ethernet status LED2• industrial Ethernet status LED2• Number of PROFINET IOYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYesPROFINETYes• HTTP		NU
• SpeakerYesTime of dayClockYes• Software clock (real-time)Yes• Software clock (real-time)Yes• eltentiveYes• eltentiveYes• synchronizableYesNumber of Industrial Ethernet interfaces2Number of RS 485 interfaces1; RS 422 / 485 combinedNumber of RS 422 interfaces0Number of RS 232 interfaces1Number of RS 232 interfaces1; SpoleNumber of SS 232 interfaces0Number of SS 232 interfaces0Number of SS 232 interfaces1; SpoleNumber of SS 232 interfaces0Number of SS 232 interfaces1Number of SS 232 interfaces0Number of SS 232 interfaces2<		No
Time of day         Clock <ul> <li>Hardware clock (real-lime)</li> <li>Yes</li> <li>Software clock</li> <li>No</li> <li>etentive</li> <li>Yes: Back-up duration typically 6 weeks</li> <li>eynchronizable</li> <li>Yes: Back-up duration typically 6 weeks</li> <li>Yes 22 / 485 combined</li> <li>Number of RS 495 interfaces</li> <li>Quito USB interfaces</li> <li>Quito USB</li></ul>		
Clock     Identify     Yes          • Software clock       • retentive       • synchronizable       Yes; Back-up duration typically 6 weeks       • synchronizable       Yes       Interfaces      Yes       Number of RS 485 interfaces       1; RS 422 / 485 combined        Number of RS 485 interfaces       1; Spole        Number of Spole        Number of 20 mA interfaces        1; Spole        Number of Spole        Nobertimetriates        • Industrial Ethernet        • Industrial Ethernet        • Nobertimetriates        PROFINET       Yes	-	
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Interfaces         2           Number of industrial Ethernet interfaces         1; RS 422 / 485 combined           Number of RS 428 interfaces         1           Number of RS 422 interfaces         0           Number of RS 422 interfaces         0           Number of USB interfaces         2; USB 2.0           • USB Mini B         1; 5-pole           Number of 20 mA interfaces (TTY)         0           Number of parallel interfaces         0           Number of SD card slots         2           With software interfaces         0           Number of SD card slots         2           Vith software interfaces         0           Number of parallel interfaces         0           Number of ports of the integrated switch         2           PROFINET         Yes           Supports protocol for PROFINET IO         Yes           IRT         Yes           PROFIBUS         Yes           PROFIBUS         Yes           PROFIBUS         Yes           PROFIBUS         Yes           PROFID         Yes           PROFID         Yes           OHCP         Yes           SMMP         Yes           OLDP		
Number of industrial Ethernet interfaces     2       Number of RS 485 interfaces     1; RS 422 / 485 combined       Number of RS 242 interfaces     1       Number of RS 232 interfaces     0       Number of RS 232 interfaces     0       Number of RS 232 interfaces     2; USB 2.0       • USB Min IB     1; 5-pole       Number of 20 mA interfaces (TTY)     0       Number of parallel interfaces     0       Number of sD card slots     2       With software interfaces     0       Number of ports of the integrated switch     2       Protocols     2       PROFIBUS     Yes       EtherNet/IP     Yes       PROFIBUS     Yes       EtherNet/IP     Yes       MPI     Yes       Protocols (Ethernet)     Yes       • DCP     Yes       • DCP     Yes       • DCP     Yes       • DCP     Yes       • LLDP     Yes       WEB characteristics     No       • HTTP S     No       • HTTP S     No       • HTTP     Yes		
Number of RS 485 interfaces1; RS 422 / 485 combinedNumber of RS 422 interfaces1Number of USB interfaces2; USB 2.0• USB Mini B1; 5-poleNumber of 20 nA interfaces (TTY)0Number of other interfaces (TTY)0Number of SD card slots2• USB filterfaces0Number of SD card slots2• Industrial Ethernet2• Industrial Ethernet2• Number of ports of the integrated switch2• Number of ports of the integrated switch2• PROFINETYesSupports protocol for PROFINET IOYesPROFIBUSYesEtherNet/IPYesPROFIBUSYesPROFIBUSYesPROFIBUSYesItherNetYes• DHCPYes• HTTPYes• HTTPYes• HTTPSNo• HTMLYes		2
Number of RS 422 interfaces1Number of RS 232 interfaces0Number of USB interfaces2; USB 2.0• USB Mini B1; 5-poleNumber of 20 mA interfaces (TTY)0Number of parallel interfaces0Number of SD card slots2With software interfaces0With software interfaces0Industrial Ethernet2• Industrial Ethernet status LED2• Number of ports of the integrated switch2ProtocolsYesPROFINETYesPROFINETYesPROFIBUSYesEthernet)Yes• TCP/IPYes• TCP/IPYes• DHCPYes• DHCPYes• DHCPYes• ILDPYes• TTPSYes• HTTPSYes• HTTPYes• HTTPSNo• HTTPSNo• HTTPSNo• HTTPSNo• HTTPSNo• HTTMYes• HTTPYes		
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With software interfacesNoIndustrial Ethernet2• Industrial Ethernet status LED2• Number of ports of the integrated switch2ProtocolsPROFINETYesSupports protocol for PROFINET IOYesIRTYesPROFIBUSYesEtherNet/IPYesMPIYes• TCP/IPYes• DHCPYes• SNMPYes• DLCPYes• LLDPYesWEB characteristics• HTTPSNo• HTMLYes	Number of other interfaces	0
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Supports protocol for PROFINET IOYesIRTYesPROFIBUSYesEtherNet/IPYesMPIYesProtocols (Ethernet)Yes• TCP/IPYes• DHCPYes• DLPYes• DCPYes• LLDPYesWEB characteristicsYes• HTTPYes• HTTPSNo• HTMLYes		
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PROFIBUSYesEtherNet/IPYesMPIYesProtocols (Ethernet)Yes• TCP/IPYes• DHCPYes• SNMPYes• DCPYes• LLDPYesWEB characteristicsYes• HTTPYes• HTTPYes• HTTPYes• HTTPSNo• HTMLYes		
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Protocols (Ethernet)• TCP/IPYes• DHCPYes• SNMPYes• DCPYes• LLDPYesWEB characteristicsYes• HTTPYes• HTTPSNo• HTMLYes		
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• SNMPYes• DCPYes• LLDPYesWEB characteristicsYes• HTTPYes• HTTPSNo• HTMLYes		
• DCPYes• LLDPYesWEB characteristicsYes• HTTPYes• HTTPSNo• HTMLYes		
LLDP     Yes       WEB characteristics     Yes       • HTTP     Yes       • HTTPS     No       • HTML     Yes		
WEB characteristics         • HTTP       Yes         • HTTPS       No         • HTML       Yes		
• HTTPYes• HTTPSNo• HTMLYes		
• HTML Yes	• HTTP	Yes
	• HTTPS	No
	• HTML	Yes
	• XML	No
• CSS Yes		
Active X     No		
• JavaScript Yes	JavaScript	Yes

• Java VM	No
Redundancy mode	
Media redundancy	
-	Yes
Further protocols	
	No
	Yes
EMC	
Emission of radio interference acc. to EN 55 011	
	Yes
	No
Degree and class of protection	
	IP66
	IP20
NEMA (front)	IF ZU
	Yes
	Yes
Standards, approvals, certificates	
Marine approval	5 m
	5 m
Ambient conditions	
	Yes Max Devides as stad. UN registerst
	Yes; Powder-coated, UV resistant
Ambient temperature during operation	
Operation (vertical installation)	00 °C: T
	-30 °C; = Tmin
	60 °C; (55 °C, see entry ID: 64847814)
Operation (max. tilt angle)	20 °C: - Tmin
•	-30 °C; = Tmin 50 °C; = Tmax
Operation (vertical installation, portrait format)	30 0, - Illiax
	-30 °C; = Tmin
	50 °C; = Tmax
Operation (max. tilt angle, portrait format)	
	-30 °C; = Tmin
-	45 °C; = Tmax
Ambient temperature during storage/transportation	
	-30 °C
• max.	70 °C
Altitude during operation relating to sea level	
Installation altitude above sea level, max.	5 000 m
	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	100 %: PH incl. condensation/front (no commissioning when
	100 %; RH incl. condensation/frost (no commissioning when condensation present), vertical mounting position
Resistance	
Coolants and lubricants	
- Resistant to commercially available coolants	Yes; Incl. diesel and oil droplets in the air
and lubricants	
Use in stationary industrial systems	
EN 60721-3-3 f	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
— to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on
	request
EN 60721-3-6 (	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
— to mechanically active substances according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust; *

Usage in industrial process technology	
<ul> <li>Against chemically active substances acc. to</li> </ul>	Yes; Class 3 (excluding trichlorethylene)
EN 60654-4	Vec: Lovel CV group A/P (avaluding triphlarethylang) harmful acc
<ul> <li>Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-</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);
71.04	level LC3 (salt spray) and level LB3 (oil)
Remark	
<ul> <li>— Note regarding classification of environmental</li> </ul>	* The supplied plug covers must remain in place over the unused
conditions acc. to EN 60721, EN 60654-4 and	interfaces during operation!
ANSI/ISA-71.04	
Conformal coating	
<ul> <li>Coatings for printed circuit board assemblies acc. to EN 61086</li> </ul>	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,</li> </ul>	Yes; Discoloration of coating possible during service life
Amendment 7	
<ul> <li>Qualification and Performance of Electrical</li> </ul>	Yes; Conformal coating, Class A
Insulating Compound for Printed Board Assemblies	
according to IPC-CC-830A	
Operating systems	
proprietary	No
pre-installed operating system	
Windows CE	Yes
configuration / header	
Message indicator	Yes
Alarm system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe management	Yes
Configuration software	
<ul> <li>STEP 7 Basic (TIA Portal)</li> </ul>	No
<ul> <li>STEP 7 Professional (TIA Portal)</li> </ul>	No
WinCC flexible Compact	No
WinCC flexible Standard	No
WinCC flexible Advanced	No
WinCC Basic (TIA Portal)	No
WinCC Comfort (TIA Portal)	Yes
WinCC Advanced (TIA Portal)	Yes
WinCC Professional (TIA Portal)	Yes
Languages	
Online languages	
Number of online/runtime languages	32
Project languages	
Languages per project	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	
Web browser	Yes
Pocket Word	Yes
Pocket Excel	Yes
PDF Viewer	Yes
Media Player	Yes
SIMATIC WinCC Sm@rtServer	Yes
SIMATIC WinCC Audit	Yes
Number of Visual Basic Scripts	Yes
Task planner	No.
• time-controlled	Yes
• task-controlled	Yes
Message system	20
Number of alarm classes	32
Bit messages	4 000
— Number of bit messages	4 000
Analog messages     Number of analog messages	200
<ul> <li>Number of analog messages</li> <li>S7 alarm number procedure</li> </ul>	Yes
	100

System messages HMI	Yes
System event, more (SIMATIC S7, SINUMERIK,	Yes
SIMOTION, )	00
Number of characters per message	80
Number of process values per message	8
Acknowledgment groups	Yes
Message indicator	Yes
Recipe management	
Number of recipes	300
Data records per recipe	500
Entries per data record	1 000
Size of internal recipe memory	2 Mbyte
Recipe memory expandable	Yes
Variables	
Number of variables per device	2 048
<ul> <li>Number of variables per screen</li> </ul>	400
Limit values	Yes
Multiplexing	Yes
Structures	Yes
Arrays	Yes
Images	
<ul> <li>Number of configurable images</li> </ul>	500
<ul> <li>Permanent window/default</li> </ul>	Yes
<ul> <li>Global image</li> </ul>	Yes
<ul> <li>Image selection by PLC</li> </ul>	Yes
<ul> <li>Image number in the PLC</li> </ul>	Yes
Image objects	
<ul> <li>Number of objects per image</li> </ul>	400
Text fields	Yes
<ul> <li>I/O fields</li> </ul>	Yes
<ul> <li>Graphic I/O fields (graphics list)</li> </ul>	Yes
<ul> <li>Symbolic I/O fields (text list)</li> </ul>	Yes
Date/time fields	Yes
Switches	Yes
Buttons	Yes
Graphic display	Yes
• Icons	Yes
Geometric objects	Yes
Complex image objects	
Number of complex objects per screen	20
Alarm view	Yes
Trend view	Yes
• User view	Yes
Status/control	Yes
Sm@rtClient view	Yes
Recipe view	Yes
<ul> <li>f(x) trend view</li> </ul>	Yes
System diagnostics view	Yes
Media Player	Yes
Bar graphs	Yes
Sliders	Yes
Pointer instruments	Yes
Analog/digital clock	Yes
Lists	500
Number of text lists per project	500
Number of entries per text list	500
Number of graphics lists per project	500
Number of entries per graphics list	500
Archiving	50
Number of archives per device	50
Number of entries per archive	20 000
Message archive	Yes
Process value archive	Yes
<ul> <li>Archiving methods</li> </ul>	

Sequential archive	Yes
<ul> <li>— Sequential archive</li> <li>— Short-term archive</li> </ul>	Yes
Memory location	
	Yes
— Memory card	
— USB memory	Yes
— Ethernet	Yes
Data storage format	N/
- CSV	Yes
— TXT	Yes
— RDB	Yes
Security	50
Number of user groups	50
Number of user rights	32
Number of users	50
Password export/import	Yes
SIMATIC Logon	Yes
Logging through printer	
Alarms	Yes
<ul> <li>Report (shift log)</li> </ul>	Yes
Hardcopy	Yes
Electronic print to file	Yes; PDF, HTML
Character sets	
<ul> <li>Keyboard fonts</li> </ul>	
— US English	Yes
Transfer (upload/download)	
MPI/PROFIBUS DP	Yes
• USB	Yes
Ethernet	Yes
<ul> <li>using external storage medium</li> </ul>	Yes; Backup/restore
Process coupling	
• S7-1200	Yes
• S7-1500	Yes
• S7-200	Yes
• S7-300/400	Yes
• LOGO!	Yes
• LOGO! • WinAC	Yes
• WinAC	Yes
WinAC     SINUMERIK	Yes; with SINUMERIK option package
• WinAC • SINUMERIK • SIMOTION	Yes; with SINUMERIK option package Yes
<ul> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> </ul>	Yes Yes; with SINUMERIK option package Yes Yes
<ul> <li>WinAC</li> <li>SINUMERIK</li> <li>SIMOTION</li> <li>Allen Bradley (EtherNet/IP)</li> <li>Allen Bradley (DF1)</li> </ul>	Yes Yes; with SINUMERIK option package Yes Yes
<ul> <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> </ul>	Yes Yes; with SINUMERIK option package Yes Yes Yes
<ul> <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> </ul>	Yes Yes; with SINUMERIK option package Yes Yes Yes Yes
<ul> <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 Yes; with SINUMERIK option package Yes Yes Yes Yes No
<ul> <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>OMRON (LINK/Multilink)</li> </ul>	Yes Yes; with SINUMERIK option package Yes Yes Yes Yes No Yes
<ul> <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>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> </ul>	Yes Yes; with SINUMERIK option package Yes Yes Yes No Yes Yes Yes
<ul> <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>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> </ul>	Yes Yes; with SINUMERIK option package Yes Yes Yes No Yes Yes Yes Yes
<ul> <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>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> </ul>	Yes Yes; with SINUMERIK option package Yes Yes Yes No Yes Yes Yes Yes Yes
<ul> <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>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul>	Yes Yes; with SINUMERIK option package Yes Yes Yes No Yes Yes Yes Yes
<ul> <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>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids	Yes Yes; with SINUMERIK option package Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes
<ul> <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>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> </ul>	Yes Yes; with SINUMERIK option package Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes
<ul> <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>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> </ul>	Yes Yes; with SINUMERIK option package Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes
<ul> <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>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> <li>Simulation</li> </ul>	Yes Yes; with SINUMERIK option package Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes
<ul> <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>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> <li>Simulation</li> <li>Device switchover</li> </ul>	Yes Yes; with SINUMERIK option package Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes
<ul> <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>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> <li>Simulation</li> </ul>	Yes Yes; with SINUMERIK option package Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes
<ul> <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>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> <li>Simulation</li> <li>Device switchover</li> </ul> Peripherals/Options	Yes Yes; with SINUMERIK option package Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes
<ul> <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>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> <li>Simulation</li> <li>Device switchover</li> </ul> Peripherals/Options Printer SIMATIC HMI MM memory card: Multi Media Card	Yes Yes; with SINUMERIK option package Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes
<ul> <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>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> <li>Simulation</li> <li>Device switchover</li> </ul> Peripherals/Options Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory	Yes Yes; with SINUMERIK option package Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes
<ul> <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>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> <li>Simulation</li> <li>Device switchover</li> </ul> Peripherals/Options Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card	Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
<ul> <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>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> <li>Simulation</li> <li>Device switchover</li> </ul> Peripherals/Options Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory	Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
<ul> <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>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> <li>Simulation</li> <li>Device switchover</li> </ul> Peripherals/Options Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card	Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
<ul> <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>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> <li>Simulation</li> <li>Device switchover</li> </ul> Peripherals/Options Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI CF memory card Compact Flash Card	Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
<ul> <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>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> <li>Simulation</li> <li>Device switchover</li> </ul> Peripherals/Options Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card SIMATIC HMI CF memory card Compact Flash Card USB memory	Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
<ul> <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>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> <li>Simulation</li> <li>Device switchover</li> </ul> Peripherals/Options Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI CF memory card Compact Flash Card <ul> <li>USB memory</li> <li>SIMATIC IPC USB Flashdrive (USB stick)</li> </ul>	Yes; with SINUMERIK option package Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <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>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> <li>Simulation</li> <li>Device switchover</li> </ul> Peripherals/Options Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI CF memory card Compact Flash Card USB memory SIMATIC HMI USB stick	Yes; with SINUMERIK option package Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes

Enclosure material (front) • Plastic • Aluminum • Stainless steel	No Yes; Powder-coated, UV resistant No
Dimensions	
Width of the housing front	214 mm
Height of housing front	158 mm
Mounting cutout, width	197 mm
Mounting cutout, height	141 mm
Overall depth	67 mm
Weights	
Weight (without packaging)	1.5 kg
Weight (with packaging)	1.7 kg
last modified:	10/7/2021 🖸