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)	
 Horizontal image resolution 	800 pixel
 Vertical image resolution 	480 pixel
Backlighting	
 MTBF backlighting (at 25 °C) 	50 000 h
Backlight dimmable	Yes; LED, can be dimmed manually or automatically
Control elements	
Keyboard fonts	
 Function keys 	
 — Number of function keys 	0
 — Number of function keys with LEDs 	0
 Keys with LED 	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	
 DP direct LEDs (LEDs as S7 output I/O) 	
— F1Fx	0
 Direct keys (keys as S7 input I/O) 	
— F1Fx	0
 Direct keys (touch buttons as S7 input I/O) 	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
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• 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	
 Against chemically active substances acc. to 	Yes; Class 3 (excluding trichlorethylene)
EN 60654-4	Vec: Lovel CV group A/P (avaluding triphlarethylang) harmful acc
 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA- 	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	
 — Note regarding classification of environmental 	* 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	
 Coatings for printed circuit board assemblies acc. to EN 61086 	Yes; Class 2 for high reliability
 Protection against fouling acc. to EN 60664-3 	Yes; Type 1 protection
 Military testing according to MIL-I-46058C, 	Yes; Discoloration of coating possible during service life
Amendment 7	
 Qualification and Performance of Electrical 	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	
 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
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
 Number of analog messages S7 alarm number procedure 	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
 Number of variables per screen 	400
Limit values	Yes
Multiplexing	Yes
Structures	Yes
Arrays	Yes
Images	
 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
 I/O fields 	Yes
 Graphic I/O fields (graphics list) 	Yes
 Symbolic I/O fields (text list) 	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
 f(x) trend view 	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
 Archiving methods 	

Sequential archive	Yes
 — Sequential archive — Short-term archive 	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
 Report (shift log) 	Yes
Hardcopy	Yes
Electronic print to file	Yes; PDF, HTML
Character sets	
 Keyboard fonts 	
— US English	Yes
Transfer (upload/download)	
MPI/PROFIBUS DP	Yes
• USB	Yes
Ethernet	Yes
 using external storage medium 	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
 WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) 	Yes Yes; with SINUMERIK option package Yes Yes
 WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) 	Yes Yes; with SINUMERIK option package Yes Yes
 WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) 	Yes Yes; with SINUMERIK option package Yes Yes Yes
 WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) 	Yes Yes; with SINUMERIK option package Yes Yes Yes Yes
 WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) 	Yes Yes; with SINUMERIK option package Yes Yes Yes Yes No
 WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) 	Yes Yes; with SINUMERIK option package Yes Yes Yes Yes No Yes
 WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) 	Yes Yes; with SINUMERIK option package Yes Yes Yes No Yes Yes Yes
 WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) 	Yes Yes; with SINUMERIK option package Yes Yes Yes No Yes Yes Yes Yes
 WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client 	Yes Yes; with SINUMERIK option package Yes Yes Yes No Yes Yes Yes Yes Yes
 WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server 	Yes Yes; with SINUMERIK option package Yes Yes Yes No Yes Yes Yes Yes
 WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids	Yes Yes; with SINUMERIK option package Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes
 WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually 	Yes Yes; with SINUMERIK option package Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes
 WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically 	Yes Yes; with SINUMERIK option package Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes
 WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation 	Yes Yes; with SINUMERIK option package Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes
 WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover 	Yes Yes; with SINUMERIK option package Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes
 WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation 	Yes Yes; with SINUMERIK option package Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes
 WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover Peripherals/Options	Yes Yes; with SINUMERIK option package Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes
 WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover 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
 WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover 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
 WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover 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
 WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover 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
 WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover 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
 WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover 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
 WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover 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
 WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover Peripherals/Options Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI CF memory card Compact Flash Card USB memory SIMATIC IPC USB Flashdrive (USB stick) 	Yes; with SINUMERIK option package Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
 WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover 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
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