SIEMENS

Data sheet



Figure similar

SIPLUS HMI TP1500 Comfort based on 6AV2124-0QC02-0AX1 with conformal coating, 0...+50 °C, Comfort Panel, touch operation, 15" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 24 MB configuration memory, WEC 2013, configurable as of WinCC Comfort V14 SP1

Product type designation Display Design of display Screen diagonal Display width Display height Display hei	General information	
Design of display	Product type designation	TP1500 Comfort
Screen diagonal 15.4 in 15.4 i	Display	
Display width 331.2 mm Display height 207 mm Number of colors 16 777 216 Resolution (pixels) • Horizontal image resolution 800 pixel Backlighting • MTBF backlighting (at 25 °C) 80 000 h • Backlight dimmable Yes; 0-100 % Control elements Keyboard fonts • Function keys — Number of function keys with LEDs 0 • Keys with LED No • System keys No • Numeric keyboard Yes; Onscreen keyboard • alphanumeric keyboard • Design as touch screen Yes; Analog-resistive Expansions for operator control of the process • Direct keys (touch buttons as S7 input I/O) Installation typo/mounting Mounting in portrait format possible Yes Mounting in landscape format possible Yes maximum permissible angle of inclination without external verification range. Upper limit (DC) Permissible range, upper limit (DC) permissible range, upper limit (DC) 12 2 V permissible range, upper limit (DC) 28.8 V	Design of display	TFT
Display height 207 mm Number of colors 16 777 216 Resolution (pixels) • Horizontal image resolution 800 pixel Backlighting • WrTBF backlighting (at 25 °C) 80 000 h • Backlighting • MTBF backlighting (at 25 °C) 80 000 h • Backlight dimmable Yes; 0-100 % 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 • Noverick elyboard Yes; Onscreen keyboard • alphanumeric 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 • Direct keys (touch buttons as S7 input I/O) 40 Installation type/mounting Mounting in portrait format possible Yes maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Type of supply voltage Rete or Type of supply voltage Poermissible range, upper limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V	Screen diagonal	15.4 in
Number of colors Resolution (pixels) • Horizontal image resolution • Vertical image resolution 800 pixel Backlighting • MTBF backlighting (at 25 °C) • Backlight dimmable Control elements Keyboard fonts • Function keys — Number of function keys — Number of function keys with LEDs • System keys • Numeric keyboard • System keys • Numeric keyboard • Jess; Onscreen keyboard • Jehnanumeric keyboard • Jess; Onscreen keyboard Touch operation • Design as touch screen Expansions for operator control of the process • Direct keys (touch buttons as S7 input I/O) Installation type/mounting Mounting in portrait format possible Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external verticals Nocember 24 V permissible range, upper limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V	Display width	331.2 mm
Resolution (pixels) • Horizontal image resolution • Vertical image resolution • Wertical image resolution • MTBF backlighting • MTBF backlighting (at 25 °C) • Backlight dimmable **Control elements Keyboard fonts • Function keys — Number of function keys — Number of function keys • No • Keys with LED • No • System keys • Numeric keyboard • alphanumeric keyboard • alphanumeric keyboard **Touch operation • Design as touch screen Expansions for operator control of the process • Direct keys (louch buttons as \$7 input I/O) **Installation type/mounting **Mounting in portrait format possible Mounting in portrait format possible Mounting in portrait format possible maximum permissible angle of inclination without external vertical value (DC) permissible range, lower limit (DC) **Jest National Park Vertical Ve	Display height	207 mm
Horizontal image resolution Vertical image resolution Backlighting MTBF backlighting (at 25 °C) Backlight dimmable Yes; 0-100 % Control elements Keyboard fonts Function keys Number of function keys No Keys with LED No System keys No Numeric keyboard System keys No Design as touch screen Expansions for operator control of the process Direct keys (touch buttons as S7 input I/O) Installation type sition Mounting in portrait format possible Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external vermissible range, lower limit (DC) Permissible range, lower limit (DC) Permissible range, lower limit (DC) Pyser No 80 000 h 80 0000 h 80 000	Number of colors	16 777 216
Vertical image resolution Backlighting MTBF backlighting (at 25 °C) Backlight dimmable Ves; 0-100 % Control elements Keyboard fonts Function keys No No No Keys with LED No System keys No No Number of function keys with LEDs System keys No No System keys No No Noreren keyboard alphanumeric keyboard Poesign as touch screen Expansions for operator control of the process Direct keys (touch buttons as S7 input I/O) Mounting position Mounting position Mounting position Mounting position Mounting position Mounting position Mounting in landscape format possible Mounting in landscape format possib	Resolution (pixels)	
### Backlighting (at 25 °C) ### 80 000 h ### Backlighting (at 25 °C) ### 80 000 h ### Backlight dimmable ### Yes; 0-100 % ### Control elements	 Horizontal image resolution 	1 280 pixel
MTBF backlighting (at 25 °C) Backlight dimmable Yes; 0-100 % Control elements Keyboard fonts Function keys Number of function keys No Keys with LED No System keys No Numeric keyboard Alphanumeric keyboard Pes; Onscreen keyboard Alphanumeric keyboard Pes; Onscreen keyboard Ves; Onscreen keyboard Ves; Onscreen keyboard Ves; Onscreen keyboard Touch operation Direct keys (touch buttons as S7 input I/O) Installation type/mounting Mounting in portrait format possible Mounting in portrait format possible Mounting in Inadscape format possible Mounting in Inadscape format possible Mounting in Inadscape format possible Mounting in Fersion Supply voltage Type of supply voltage Rated value (DC) Permissible range, lower limit (DC) 19.2 V Permissible range, upper limit (DC) 28.8 V	 Vertical image resolution 	800 pixel
Backlight dimmable Yes; 0-100 % Control elements Keyboard fonts Function keys - Number of function keys - Number of function keys with LEDs Keys with LED Keys with LED System keys No No No Numeric keyboard alphanumeric keyboard besign as touch screen Expansions for operator control of the process Direct keys (touch buttons as S7 input I/O) Installation type/mounting Mounting in landscape format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V	Backlighting	
Control elements	 MTBF backlighting (at 25 °C) 	80 000 h
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 • alphanumeric keyboard Yes; Onscreen keyboard Touch operation • Design as touch screen Yes; Analog-resistive Expansions for operator control of the process • Direct keys (touch buttons as S7 input I/O) 40 Installation type/mounting Mounting position vertical Mounting in portrait format possible Yes maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V	Backlight dimmable	Yes; 0-100 %
Function keys Number of function keys Number of function keys with LEDs Keys with LED No No No No No No No No No N	Control elements	
Number of function keys Number of function keys with LEDs Number of function keys with LEDs Keys with LED	Keyboard fonts	
- Number of function keys with LEDs • Keys with LED • Keys with LED • System keys • Numeric keyboard • alphanumeric keyboard • alphanumeric keyboard • Design as touch screen • Design as touch screen • Design as touch screen Expansions for operator control of the process • Direct keys (touch buttons as S7 input I/O) Installation type/mounting Mounting position wertical Mounting in portrait format possible Mounting in portrait format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V	Function keys	
Keys with LED System keys No Numeric keyboard Yes; Onscreen keyboard Yes; Onscreen keyboard Touch operation Design as touch screen Yes; Analog-resistive Expansions for operator control of the process Olirect keys (touch buttons as S7 input I/O) 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 Supply voltage Type of supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V	 Number of function keys 	0
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 Direct keys (touch buttons as S7 input I/O) Installation type/mounting Mounting position Vertical Mounting in portrait format possible Mounting in landscape format possible Mounting in landscape format possible Yes maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V	 Number of function keys with LEDs 	0
Numeric keyboard alphanumeric keyboard Yes; Onscreen keyboard Touch operation Design as touch screen Expansions for operator control of the process Direct keys (touch buttons as S7 input I/O) Nounting position Wounting position Wounting in landscape format possible Mounting in landscape format possible Maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) Permissible range, upper limit (DC)	Keys with LED	No
alphanumeric keyboard Touch operation Design as touch screen Expansions for operator control of the process Direct keys (touch buttons as S7 input I/O) Installation type/mounting Mounting position Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V	System keys	No
Touch operation Design as touch screen Expansions for operator control of the process Direct keys (touch buttons as S7 input I/O) Installation type/mounting Mounting position Mounting in portrait format possible Mounting in landscape format possible Tyes Mounting in landscape format possible Tyes Mounting in landscape of inclination without external ventilation Supply voltage Type of supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V	 Numeric keyboard 	Yes; Onscreen keyboard
▶ Design as touch screen Expansions for operator control of the process ▶ Direct keys (touch buttons as S7 input I/O) 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 Supply voltage Type of supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V	alphanumeric keyboard	Yes; Onscreen keyboard
Expansions for operator control of the process • Direct keys (touch buttons as S7 input I/O) Installation type/mounting Mounting position Vertical Mounting in portrait format possible Yes Mounting in landscape format possible Tyes maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V	Touch operation	
● Direct keys (touch buttons as S7 input I/O) Installation type/mounting Mounting position Mounting in portrait format possible Mounting in landscape format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V	Design as touch screen	Yes; Analog-resistive
Installation type/mounting Mounting position Mounting in portrait format possible Yes Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V	Expansions for operator control of the process	
Mounting position Mounting in portrait format possible Yes Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V	 Direct keys (touch buttons as S7 input I/O) 	40
Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V	Installation type/mounting	
Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V	Mounting position	vertical
maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V	Mounting in portrait format possible	Yes
ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V	Mounting in landscape format possible	Yes
Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V		35°
Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 24 V permissible range, upper limit (DC) 28.8 V	Supply voltage	
permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V	Type of supply voltage	DC
permissible range, upper limit (DC) 28.8 V	Rated value (DC)	24 V
	permissible range, lower limit (DC)	19.2 V
Input current	permissible range, upper limit (DC)	28.8 V
	Input current	

Ourself constitute (c. 1. 1. 1.)	47.4
Current consumption (rated value)	1.7 A
Starting current inrush I²t	0.5 A ² ·s
Power	
Active power input, typ.	41 W
Processor	
Processor type	X86
Memory	
Flash	Yes
RAM	Yes
Memory available for user data	24 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	Yes
retentive	Yes; Back-up duration typically 6 weeks
synchronizable	Yes
Interfaces	
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined
Number of RS 422 interfaces	0; together with RS 485
Number of RS 232 interfaces	0
Number of USB interfaces	2; USB 2.0
Number of 20 mA interfaces (TTY)	0
Number of parallel interfaces	0
Number of other interfaces	0
Number of SD card slots	2
With software interfaces	No
Industrial Ethernet	
Industrial Ethernet status LED	3
Number of ports of the integrated switch	2
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	Yes
IRT	Yes
PROFIBUS	Yes
EtherNet/IP	Yes
MPI	Yes
Protocols (Ethernet)	V
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
DCP LLDP	Yes Yes
● LLDP WEB characteristics	165
HTTP	Yes
• HTTPS	Yes
• HTML	Yes
• ATML	Yes
• AIVIL • CSS	Yes
• Active X	Yes
Active X JavaScript	Yes
Java VM	No
Redundancy mode	110
Redultidation filloud	

Media redundancy	
— MRP	Yes
Further protocols	
• CAN	No
MODBUS	Yes
Interrupts/diagnostics/status information	
Diagnoses	
Diagnostic information readable	Yes; S7 controller
EMC	
Emission of radio interference acc. to EN 55 011	
Limit class A, for use in industrial areas	Yes
Limit class B, for use in residential areas	No
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
NEMA (front)	
Enclosure Type 4 at the front	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
 For vertical installation, max. 	50 °C; (55 °C, see entry ID: 64847814)
Operation (max. tilt angle)	
 At maximum tilt angle, min. 	0 °C
— At maximum tilt angle, max.	40 °C
Operation (vertical installation, portrait format)	
For vertical installation, min.	0 °C
— For vertical installation, max.	40 °C
Operation (max. tilt angle, portrait format)	
— At maximum tilt angle, min.	0 °C
— At maximum tilt angle, max.	40 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	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	
Resistant to commercially available coolants and lubricants	Yes; Incl. diesel and oil droplets in the air
Use in stationary industrial systems	
 to biologically active substances according to EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
 to chemically active substances according to EN 60721-3-3 	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	
— to biologically active substances according to EN 60721-3-6	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
 to chemically active substances according to 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 EN 60654-4 	Yes; Class 3 (excluding trichlorethylene)
 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 	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	(
 Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 	* 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
 Protection against fouling acc. to EN 60664-3 	Yes; Type 1 protection
 Military testing according to MIL-I-46058C, Amendment 7 	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; Windows Embedded Compact 2013
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	165
-	No
STEP 7 Basic (TIA Portal) STEP 7 Brafassional (TIA Portal)	No No
STEP 7 Professional (TIA Portal) Win CO florible Comment	No No
WinCC flexible Compact	No
WinCC flexible Standard	No
WinCC flexible Advanced	No
WinCC Basic (TIA Portal)	No
WinCC Comfort (TIA Portal)	Yes; V14 SP1 HSP and higher
WinCC Advanced (TIA Portal)	Yes; V14 SP1 HSP and higher
WinCC Professional (TIA Portal)	Yes; V14 SP1 HSP and higher
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	
• time-controlled	Yes
task-controlled	Yes
	1 00
Help system	220
Number of characters per info text	320
Message system	22
Number of alarm classes Dit recognes	32
Bit messages	0.000
Number of bit messages	6 000

Analog messages	
Analog messages — Number of analog messages	200
— Number of analog messagesS7 alarm number procedure	Yes
System messages HMI	Yes
System messages nim System event, more (SIMATIC S7, SINUMERIK,	Yes
SIMOTION,)	
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
Circulating buffer	Yes
— retentive	Yes
— maintenance-free	Yes
Recipe management • Number of recipes	500
Data records per recipe	1 000
Entries per data record	2 000
Size of internal recipe memory	4 Mbyte
Recipe memory expandable	Yes
Variables	
Number of variables per device	4 096
Number of variables per screen	400
Limit values	Yes
Multiplexing	Yes
Structures	Yes
• Arrays	Yes
Images	
Number of configurable images	750
Permanent window/default	Yes
Global image	Yes
Pop-up images	Yes
Slide-in images	Yes
Image selection by PLC	Yes
 Image number in the PLC 	Yes
Image objects	
 Number of objects per image 	600
 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	40
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
HTML browser DDF display	Yes
PDF display	Yes

IP camera display	Yes
Bar graphs	Yes
Sliders	Yes
 Pointer instruments 	Yes
Analog/digital clock	Yes
Lists	
 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	
 Number of archives per device 	50
 Number of entries per archive 	50 000
 Message archive 	Yes
 Process value archive 	Yes
 Archiving methods 	
 Sequential archive 	Yes
 Short-term archive 	Yes
Memory location	
— Memory card	Yes
— USB memory	Yes
— Ethernet	Yes
Data storage format	
— CSV	Yes
— 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	
 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
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 as from WinCC V15 or higher
• SIMOTION	Yes
Allen Bradley (EtherNet/IP)	Yes
Allen Bradley (DF1)	Yes
Mitsubishi (MC TCP/IP)	Yes
Mitsubishi (FX)	Yes
OMRON (FINS TCP)	No
OMRON (LINK/Multilink)	Yes
Modicon (Modbus TCP/IP)	Yes
- modioon (mododo i Oi /ii)	1.00

Modicon (Modbus)	Yes
 OPC UA Client 	Yes
OPC UA Server	Yes
Service tools/configuration aids	
 Backup/Restore manually 	Yes
 Backup/Restore automatically 	Yes
 Simulation 	Yes
 Device switchover 	Yes
Peripherals/Options	
Printer	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes; Up to 128 MB
SIMATIC HMI SD memory card: Secure Digital memory card	Yes; Up to 2 GB
SIMATIC HMI CF memory card Compact Flash Card	No
USB memory	Yes
SIMATIC IPC USB Flashdrive (USB stick)	Yes; Up to 16 GB
SIMATIC HMI USB stick	Yes; Up to 8 GB
Network camera	Yes
Mechanics/material	
Enclosure material (front)	
Plastic	No
• Aluminum	Yes
Stainless steel	No
Dimensions	
Width of the housing front	415 mm
Height of housing front	310 mm
Mounting cutout, width	396 mm
Mounting cutout, height	291 mm
Overall depth	75 mm
Weights	
Weight (without packaging)	4.4 kg

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