Data sheet

SIPLUS HMI TP1200 Comfort for medial exposure with conformal coating based on 6AV2124-0MC01-0AX0 $\,$



Figure similar

General information	
Product type designation	TP1200 Comfort
Display	
Design of display	TFT
Screen diagonal	12.1 in
Display width	261.1 mm
Display height	163.2 mm
Number of colors	16 777 216
Resolution (pixels)	
 Horizontal image resolution 	1 280 pixel
Vertical 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 	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
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)	40
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	35°
ventilation	
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption (rated value)	0.85 A
Starting current inrush I²t	0.5 A ² ·s
Power	
Active power input, typ.	20 W
Memory	
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	
Interfaces Number of industrial Ethernet interfaces	2
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces	2 1; RS 422 / 485 combined
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces	2 1; RS 422 / 485 combined 1
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces	2 1; RS 422 / 485 combined 1
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces	2 1; RS 422 / 485 combined 1 0 2; USB 2.0
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole
Interfaces Number of industrial Ethernet interfaces 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)	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole
Interfaces Number of industrial Ethernet interfaces 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	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0
Interfaces Number of industrial Ethernet interfaces 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 other interfaces	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0
Interfaces Number of industrial Ethernet interfaces 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	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 2
Interfaces Number of industrial Ethernet interfaces 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	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0
Interfaces Number of industrial Ethernet interfaces 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	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No
Interfaces Number of industrial Ethernet interfaces 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	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 2 No
Interfaces Number of industrial Ethernet interfaces 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	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No
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Interfaces Number of industrial Ethernet interfaces 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	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 2 No Yes Yes Yes; As of WinCC V12
Interfaces Number of industrial Ethernet interfaces 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	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 2 No Yes Yes Yes Yes; As of WinCC V12 Yes
Interfaces Number of industrial Ethernet interfaces 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 MPI	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 2 No Yes Yes Yes; As of WinCC V12
Interfaces Number of industrial Ethernet interfaces 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 MPI Protocols (Ethernet)	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 Yes Yes Yes Yes Yes Yes Yes Yes
Interfaces Number of industrial Ethernet interfaces 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 MPI Protocols (Ethernet) • TCP/IP	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 Yes Yes Yes Yes; As of WinCC V12 Yes Yes Yes
Interfaces Number of industrial Ethernet interfaces 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 MPI Protocols (Ethernet) • TCP/IP • DHCP	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 Yes Yes Yes Yes; As of WinCC V12 Yes Yes Yes Yes
Interfaces Number of industrial Ethernet interfaces 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 MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 No 2 Yes
Interfaces Number of industrial Ethernet interfaces 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 MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 2 Yes Yes Yes; As of WinCC V12 Yes
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of parallel interfaces (TTY) Number of parallel 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 MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 No 2 Yes

• HTTP	Yes
HTTPS	No
• HTML	Yes
• XML	No
• CSS	Yes
 Active X 	No
 JavaScript 	Yes
• Java VM	No
Redundancy mode	
Media redundancy	
— MRP	Yes; As of WinCC V12
Further protocols	
• CAN	No
EtherNet/IP	Yes
• MODBUS	Yes
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	
NEMA (front)	Vac
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; = Tmin
 For vertical installation, max. 	50 °C; = Tmax
 Operation (max. tilt angle) 	
 At maximum tilt angle, min. 	0 °C; = Tmin
 At maximum tilt angle, min. 	40 °C; = Tmax
 Operation (vertical installation, portrait format) 	
 For vertical installation, min. 	0 °C; = Tmin
 For vertical installation, max. 	40 °C; = Tmax
 Operation (max. tilt angle, portrait format) 	
— At maximum tilt angle, min.	0 °C; = Tmin
— At maximum tilt angle, min.	35 °C; = Tmax
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-	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin
altitude	(Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin
Relative humidity	(Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
•	100 % PH incl. condensation/frost (no commissioning under
 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	Yes; Incl. diesel and oil droplets in the air
and lubricants	
Use in stationary industrial systems	Voc. Class 2D2 mold fungue and drugst angers (with the assertion
 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	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on
EN 60721-3-6	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	INO
Windows CE	Yes
Configuration	
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; from V11
WinCC Advanced (TIA Portal)	Yes; from V11
WinCC Professional (TIA Portal)	Yes; from V11
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 Yes
PDF ViewerMedia Player	

SIMATIC WincC Audit Yes	SIMATIC WinCC Sm@rtServer	Yes
Number of Visual Basic Scripts	_	
Task planner		
• time-controlled	· · · · · · · · · · · · · · · · · · ·	100
Lask-controlled		Yes
Helps system		
Number of characters per info text		100
Number of alarm classes 32		70
Number of alarm classes ○ Bit messages — Number of bit messages — Number of bit messages — Number of analog messages — Number of analog messages — Number of analog messages — Number of procedure ○ System messages, bit MI ○ System messages, bit GIMATIC 57, Sinumerik, Simotion, etc.) Number of characters per message ○ Number of characters per message ○ Number of characters per message ○ Number of process values per message ○ Acknowdegment groups ○ Wes ○ Message indicator ○ Wes ○ Message buffer ─ Number of entries ○ Circulating buffer ─ Number of entries ○ Circulating buffer ○ Wes ─ retentive ○ Wes ─ retentive ○ Wes ○ Data records per recipe ○ Size of internal recipe memory ○ Alto vecords per recipe ○ Entries per data record ○ Size of internal recipe memory ○ Recipe memory expandable ○ Ves ○ Number of variables per device ○ Number of variables per device ○ Number of variables per screen ○ Auto Ves ○ Number of variables per screen ○ Auto Ves ○ Multiplexing ○ Yes ○ Situatures ○ Number of configurable images ○ Number of configurable images ○ Number of configurable images ○ Number of by PLC ○ Yes ○ Image selection by PLC ○ Yes ○ Image selection by PLC ○ Yes ○ Image selection by PLC ○ Yes ○ Image number in the PLC ○ Yes ○ Image number in the PLC ○ Yes ○ Image number in the PLC ○ Yes ○ Soutches ○ Craphic I/O fields (graphics list) ○ Soutches ○ Soutches ○ Soutches ○ Craphic I/O fields ○ Cra	·	
		32
		<u>-</u>
	_	4 000
Number of analog messages 200	_	
S 7 alarm number procedure System messages HMI System messages, other (SIMATIC S7, Sinumerik, Simotion, etc.) Number of characters per message Number of process values per message Acknowledgment groups Yes Message indicator Yes Message indicator Yes Message indicator — Number of entries — Circulating buffer — Number of entries — retentive — retentive — maintenance-free — maintenance-free Pescipe management Number of recipes Oba records per recipe Size of internal recipe memory Size of internal recipe memory Size of internal recipe memory Size of variables per device Number of variables per device Number of variables per screen Number of variables per screen Number of variables per screen Number of variables per device Number of variables per device Number of variables per screen Autory Structures Yes Arrays Number of configurable images Number of configura		200
System messages, other (SIMATIC S7, Sinumerik, Simotion, etc.) Number of characters per message Number of process values per message Acknowledgment groups Yes Message indicator Nessage indicator Nessage buffer - Number of entries - Circulating buffer Yes - retentive Yes - maintenance-free Yes Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Recipe memory expandable Recipe memory expandable Number of variables per device Number of variables per screen Number		
Simoton, etc.) Number of characters per message 80 Number of process values per message 8 Acknowledgment groups Yes Message indicator Yes Message buffer Thumber of entries 1024 — Circulating buffer Yes — retentive Yes — retentive Yes — retentive Yes — maintenance-free Yes Recipe management Number of recipes 300 Data records per recipe 500 Entries per data record 1000 Size of internal recipe memory 2 Mbyte Recipe memory expandable Yes Variables Number of variables per device 400 Limit values Yes Multiplexing Yes Structures Yes Arrays Yes Images Number of configurable images 500 Permanent window/default Yes Image objects Number of policits per image 400 Permanent window/default Yes Image number in the PLC Yes Image number in the PLC Yes Image number in the PLC Yes Symbolic //O fields (graphics list) Yes Signation Signation Yes Suntches Yes Symbolic //O fields (graphics list) Yes Suntches Yes Buttons Yes Graphic idsplay Yes		
Number of process values per message Acknowledgment groups Acknow		
Number of process values per message Acknowledgment groups Acknow	Number of characters per message	80
Acknowledgment groups Message indicator Message buffer — Number of entries — Circulating buffer — retentive — retentive — retentive — maintenance-free Recipe management • Number of recipes • Data records per recipe • Entries per data record • Size of internal recipe emory • Recipe memory expandable • Number of variables per device • Number of variables per screen • Mumble of variables per screen • Mumber of variables per screen • Number of variables per screen • Mumble of variables per screen • Mumble of variables per screen • Mumble of variables per screen • Mumber of variables per screen • Number of configurable images •		8
Message indicator Message buffer — Number of entries — circulating buffer — retentive — retentive — maintenance-free Recipe management Number of recipes ① Data records per recipe ② Entries per data record ③ I 0 000 ③ Size of internal recipe memory ② Recipe memory expandable Yes Variables Number of variables per device ③ Number of variables per screen ④ Multiplexing ④ Structures ④ Multiplexing ④ Structures ④ Arrays ④ Arrays ☐ Permanent window/default ⑤ Global image ④ Image selection by PLC ☑ Image objects ⑥ Number of objects per image ○ Symbolic I/O fields (graphics list) ○ Graphic I/O fields (text list) ○ Data record ○ Yes ⑤ Switches ○ Switches ○ Switches ○ Graphic display ○ Graphic display ○ Graphic display ○ Cyre ○ Graphic display ○ Yes ○ Graphic display ○ Cyre ○ Graphic display ○ Yes ○ Graphic display ○ Cyre ○ Graphic display ○ Yes ○ Cyre		Yes
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retentive maintenance-free Yes maintenance-free Yes Recipe management Number of recipes 300	 Circulating buffer 	Yes
Recipe management	-	Yes
 Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Yes Variables Number of variables per device Number of variables per screen Limit values Muttiplexing Structures Arrays Yes Arrays Yes Images Number of configurable images Permanent window/default Global image Image selection by PLC Image number in the PLC Yes Image objects Number of objects per image Text fields (Graphic I/O fields (graphics list) Yes Symbolic I/O fields (graphics list) Yes Symbolic I/O fields (text list) Yes Buttons Graphic display Icons Yes 	— maintenance-free	Yes
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Variables • Number of variables per device • Number of variables per screen • Limit values • Multiplexing • Structures • Arrays • Arrays Number of configurable images • Arrays Yes Multiplexing • Structures • Arrays Yes Mumber of configurable images • Number of configurable images • Permanent window/default • Global image • Image selection by PLC • Image number in the PLC Yes Image objects • Number of objects per image • Text fields • I/O fields • Craphic I/O fields (graphics list) • Symbolic I/O fields (text list) • Symbolic I/O fields (text list) • Switches • Switches • Buttons • Graphic display • Icons		2 Mbyte
Variables • Number of variables per device • Number of variables per screen • Number of variables per screen • Auto • Limit values • Multiplexing • Structures • Arrays • Arrays Number of configurable images • Number of configurable images • Permanent window/default • Global image • Image selection by PLC • Image number in the PLC Ves Image objects • Number of objects per image • Number of objects per image • Yes • Irat fields • Yes • I/O fields • Caraphic I/O fields (graphics list) • Symbolic I/O fields (text list) • Date/time fields • Switches • Buttons • Graphic display • Icons		
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Images Number of configurable images Permanent window/default Global image Image selection by PLC Image number in the PLC Yes Image objects Number of objects per image Yes If consumer in the PLC Yes Image objects Number of objects per image Yes Yes Image objects Number of objects per image Yes If consumer image Yes Yes Yes Yes Yes Yes Yes Symbolic I/O fields (graphics list) Yes Symbolic I/O fields (text list) Yes Switches Yes Buttons Yes Graphic display Yes Icons Yes	Structures	Yes
Images Number of configurable images Permanent window/default Yes Global image Image Selection by PLC Image selection by PLC Image number in the PLC Yes Image objects Number of objects per image Yes I/O fields Yes I/O fields Yes Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Buttons Graphic display Image Soloco Yes Soloco Yes Yes Soloco Yes		
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 Buttons Graphic display Icons Yes Yes Yes 		Yes
 Graphic display Icons Yes Yes	 Switches 	Yes
 Graphic display Icons Yes Yes	Buttons	Yes
• Icons Yes	Graphic display	
Complex image objects		

Number of complex objects per screen 20		
	 Number of complex objects per screen 	20
	 Alarm view 	
Statuscontrol Yes	Trend view	Yes
	User view	Yes
Recipe view Yes (ix) Irend view Yes (ix) Ire	 Status/control 	Yes
	Sm@rtClient view	Yes
System diagnostics view Media Player Yes Bar graphs Silders Silders Pointer instruments Pointer instruments Pointer instruments Analog/digital clock Lists Number of text lists per project Number of articles per text list Sono Number of articles per text list Sono Number of articles per text list Sono Number of articles per device Number of articles per archive Number of articles per archive Number of entries per archive Number of user archive Number of user of entries per archive Number of user of the entries o	Recipe view	Yes
Media Player	f(x) trend view	Yes
• Media Player Yes • Bar graphs Yes • Cholter instruments Yes • Pointer instruments Yes • Chalogydigial clock Yes • Number of text lists per project 500 • Number of graphics lists per project 500 • Number of entries per graphics list 500 • Number of entries per graphics list 500 • Number of entries per archive 20 000 • Number of entries per archive 20 000 • Message archive Yes • Process value archive Yes • Process value archive Yes • Archiving methods - Sequential archive Yes • Archiving methods - Sequential archive Yes • Memory location - Wes - Sequential archive Yes • Data storage format Yes - Sequential archive Yes • Data storage format Yes - Sequential archive Yes • Number of user groups 50 Number of user groups 50 • Number of user groups 50 Nu	System diagnostics view	Yes
Bar graphs Yes		Yes
Silders Pointer instruments Number of ext lists per project Number of entries per text list Number of entries per text list Number of entries per graphics lists Number of entries per graphics list Number of entries per archive Poses value archive Per overs value archive Per overs value archive Per overs value archive Number of entries per archive Number of entries per archive Number of user group Number of user groups Number of user	•	Yes
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Number of text lists per project		
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Number of graphics lists per project 500 Number of entries per graphics list 500 Number of archives per device 50 Number of archives per archive 20 0000 Message archive Yes Process value archive Yes Process value archive Yes Archiving methods — Sequential archive Yes — Short-term archive Yes — Memory location — Memory card Yes — USB memory Yes — Data storage format Yes — TXT Yes — RDB Yes Security Number of user groups 50 Number of user groups 50 • Number of user sprints 32 • Number of user sprints 32 • Number of user nights 32 • Number of user sprints 32 • Number of users sprints 33 • Number of users sprints 32 • Number of us		
Number of entries per graphics list		
Number of archives per device 50		
Number of archives per device Number of entries per archive Number of executing archive Number of executing archive Number of user groups		500
Number of entries per archive		F0
● Message archive Yes ● Process value archive Yes ● Archiving methods Yes — Sequential archive Yes — Short-term archive Yes ● Memory location Yes — USB memory Yes — Ethernet Yes ● Data storage format Yes — CSV Yes — TXT Yes — RDB Yes Security Yes • Number of user groups 50 • Number of user rights 32 • Password export/import Yes<		
 Process value archive Archiving methods — Sequential archive — Short-term archive Yes Memory location — Memory card — USB memory — Ethernet Data storage format — CSV — TXT — RDB Yes Security Number of user groups Number of user rights 32 Number of users Sasword export/import Yes SIMATIC Logon Logging through printer Alarms Report (shift log) Hardcopy Electronic print to file Character sets Keyboard fonts — US English Transfer (upload/download) MPI/PROFIBUS DP Yes Elthernet Yes S7-1200 Yes 		
Sequential archive		Yes
- Short-term archive Memory location — Memory card — USB memory — Ethernet Pes Data storage format — CSV — TXT — RDB — Yes Security Number of user groups Number of user groups Number of user rights Silvatific Logon Password export/import Silvatific Logon Logging through printer Alarms Report (shift log) Hardcopy Electronic print to file Character sets Keyboard fonts — US English Yes Transfer (upload/download) MPI/PROFIBUS DP USINB Silvatific Logo Process coupling No Process coupling Process coupling Silvatific Logo Pes Wes Silvatific Logon Pes Mes Pes Pes Pes Pes Pes Pes		
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- USB memory - Ethernet Data storage format - CSV - TXT - RDB Yes Security ● Number of user groups ● Number of user rights 9 Number of user sights 9 Number of users ● Number of users ● SiMATIC Logon Password export/import ● SIMATIC Logon Yes Logging through printer ● Alarms Pactory ● Report (shift log) ● Hardcopy ● Electronic print to file Character sets ● Keyboard fonts - US English Transfer (upload/download) ● MPI/PROFIBUS DP ● USB ● Ethernet ● Using external storage medium Process coupling ● \$7-1200 ● \$7-1200 ● Yes Yes Yes Yes Yes Yes Yes Yes		
Ethernet - Data storage format CSV TXT RDB RDB Security Number of user groups Number of user rights Number of user rights Number of user rights Number of user services Number of users Password export/import SIMATIC Logon SIMATIC Logon SIMATIC Logon Ves SIMATIC Logon Ves Ves Neport (shift log) Hardcopy Yes Report (shift log) Hardcopy Ves Electronic print to file Ves; PDF, HTML Character sets Keyboard fonts US English US English US English Ves USB USB Ves Ethernet UsB UsB UsB Ves UsB Usg external storage medium No Process coupling S7-1200 S7-1500 Yes Yes Ves Ves Ves Ves Ves Ves Ves Ves S7-1500 Yes Ves	— Memory card	Yes
	— USB memory	Yes
- CSV	— Ethernet	Yes
TXT	 Data storage format 	
— 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 Yes • 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) Yes • USB Yes • Ethernet Yes • Lethernet Yes • using external storage medium No Process coupling Yes • S7-1200 Yes • S7-1500 Yes	— CSV	Yes
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 Password export/import SIMATIC Logon Yes Logging through printer Alarms Report (shift log) Hardcopy Electronic print to file Yes; PDF, HTML Character sets Keyboard fonts US English Wes Transfer (upload/download) MPI/PROFIBUS DP USB Ethernet Yes Ethernet Yes Process coupling \$7-1200 \$7-1500 Yes Yes Yes 		50
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 Keyboard fonts — US English Yes Transfer (upload/download) MPI/PROFIBUS DP USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1500 Yes 		100,1 DI , ITIME
— 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		
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Process coupling ◆ S7-1200 Yes ◆ S7-1500 Yes		
• S7-1200 Yes • S7-1500 Yes		NO
• S7-1500 Yes		
• S7-200 Yes		
	• S7-200	Yes

07.000/400	V.
• \$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
 OMRON (LINK/Multilink) 	Yes
 Modicon (Modbus TCP/IP) 	Yes
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
SIMATIC HMI SD memory card: Secure Digital memory	Yes
card	
USB memory	Yes
Network camera	Yes
Mechanics/material	
Enclosure material (front)	
Plastic	No
Aluminum	Yes
Stainless steel	No
Dimensions	
Width of the housing front	330 mm
Height of housing front	241 mm
Mounting cutout, width	310 mm
Mounting cutout, height	221 mm
Overall depth	65 mm
Weights	
Weight without packaging	2.8 kg
Weight incl. packaging	3.5 kg
3 1/4-4-30-3	

last modified: 1/16/2021 **C**