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
• Syrioin Cinzabic	
Interfaces	
Interfaces Number of industrial Ethernet interfaces	2
Number of industrial Ethernet interfaces Number of RS 485 interfaces	2 1; RS 422 / 485 combined
Number of RS 485 interfaces Number of RS 422 interfaces	2 1; RS 422 / 485 combined 1
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 parallel interfaces 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
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 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
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
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
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 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 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 2 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 0 2 No 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 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No Yes Yes Yes Yes; As of WinCC V12 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 EtherNet/IP MPI	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 Yes Yes Yes; As of WinCC V12 Yes
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 EtherNet/IP 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
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 SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 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 EtherNet/IP 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 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 EtherNet/IP 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 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 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 No 2 Yes

WEB characteristics	
• 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
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)	
Enclosure Type 4 at the front	Yes
Enclosure Type 4 at the front Enclosure Type 4x at the front	Yes
	Tes
Ambient conditions	V
Suited for indoor use	Yes
Suited for outdoor use	No
Ambient temperature during operation	
Operation (vertical installation)	0.00 T.
— 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- 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	Yes; Class 2 for high reliability
EN 61086	- · · · ·
 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
Continuitation	
Configuration Message indicator	Vac
Message indicator	Yes
Message indicator Alarm system (incl. buffer and acknowledgment)	Yes
Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output)	Yes Yes
Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible	Yes Yes Yes
Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management	Yes Yes
Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software	Yes Yes Yes Yes Yes
Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal)	Yes Yes Yes Yes Yes No
Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal)	Yes Yes Yes Yes You No No
Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact	Yes Yes Yes Yes Yes No No No
Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal)	Yes Yes Yes Yes No No No No No
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Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal)	Yes Yes Yes Yes You No
Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal)	Yes Yes Yes Yes Yes No No No No No No No No Yes; from V11
Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal)	Yes Yes Yes Yes Yes No No No No No No No No Yes; from V11 Yes; from V11
Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Advanced (TIA Portal)	Yes Yes Yes Yes Yes No No No No No No No No Yes; from V11
Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Professional (TIA Portal)	Yes Yes Yes Yes Yes No No No No No No No Ves; from V11 Yes; from V11
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Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal) Languages Online languages • Number of online/runtime languages Project languages	Yes Yes Yes Yes No No No No No No No Yes; from V11 Yes; from V11 Yes; from V11
Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal) Languages Online languages • Number of online/runtime languages Project languages • Languages per project	Yes Yes Yes Yes No No No No No No No Yes; from V11 Yes; from V11 Yes; from V11
Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal) • Tanguages Online languages • Number of online/runtime languages Project languages • Languages per project Functionality under WinCC (TIA Portal)	Yes Yes Yes Yes No No No No No No No No Yes; from V11 Yes; from V11 Yes; from V11
Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal) Languages Online languages • Number of online/runtime languages Project languages • Languages per project Functionality under WinCC (TIA Portal) Libraries	Yes Yes Yes Yes No No No No No No No Yes; from V11 Yes; from V11 Yes; from V11
Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal) Languages Online languages • Number of online/runtime languages Project languages • Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options	Yes Yes Yes Yes No No No No No No No Yes; from V11 Yes; from V11 Yes; from V11 Yes; from V11
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Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal) Languages Online languages • Number of online/runtime languages Project languages • Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options • Web browser • Pocket Word	Yes Yes Yes Yes No No No No No No No Yes; from V11 Yes; from V11 Yes; from V11 Yes; from V11
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Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal) Languages Online languages • Number of online/runtime languages Project languages • Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options • Web browser • Pocket Word	Yes Yes Yes Yes No No No No No No No Yes; from V11 Yes; from V11 Yes; from V11 Yes; from V11

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 ○ 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 ○ Entries per data record ○ Number of recipes ○ Data records per recipe ○ Entries per data record ○ Size of internal recipe memory ○ Recipe memory expandable ○ Ves ○ Number of variables per device ○ Auxiliables ○ Number of variables per screen ○ Auxiliables per screen ○ Auxiliables per screen ○ Auxiliables per screen ○ Auxiliables per screen ○ Number of variables per screen ○ Auxiliables	·	
		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 • 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
		Yes
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retentive maintenance-free Yes maintenance-free Yes Recipe management Number of recipes 300	 Circulating buffer 	Yes
Recipe management	-	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 • Permanent window/default • Global image • Image selection by PLC • Image number in the PLC Ves Image objects • Number of objects per image • I/O fields • Text fields • Graphic I/O fields (graphics list) • Symbolic I/O fields (text list) • Switches • Switches • Buttons • Graphic display • Icons • Rumber of variables per device 2 048 400 • Ves 5 040 • Ves • Ves • Symbolic I/O fields (graphics list) • Ves • Symbolic I/O fields (text list) • Ves • Graphic display • Ves • Graphic display • Ves • Graphic display • Ves • 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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 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 Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Buttons Graphic display Icons 		500
 Image selection by PLC Image number in the PLC Yes Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Buttons Graphic display Icons 		
 Image selection by PLC Image number in the PLC Yes Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Buttons Graphic display Icons 	Global image	Yes
 Image number in the PLC Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Buttons Graphic display Icons 	_	Yes
Image objects Number of objects per image Text fields I/O fields		Yes
 Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Buttons Graphic display Icons 		
 Text fields I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Buttons Graphic display Icons 	Number of objects per image	400
 Graphic I/O fields (graphics list) Symbolic I/O fields (text list) Date/time fields Switches Buttons Graphic display Icons Yes Yes 		Yes
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 Symbolic I/O fields (text list) Date/time fields Switches Buttons Graphic display Icons Yes Yes Yes Yes Yes Yes	 Graphic I/O fields (graphics list) 	Yes
 Date/time fields Switches Buttons Graphic display Icons Yes Yes Yes 		Yes
 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		

	22
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	
 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 	20 000
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	No
Process coupling	
• S7-1200	Yes
• S7-1500	Yes
• S7-200	Yes
- 0. 200	

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• \$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	
r cripherals/options	
Printer	Yes
	Yes Yes
Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory	
Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card	Yes Yes
Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory	Yes
Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card USB memory Network camera	Yes Yes
Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card USB memory Network camera Mechanics/material	Yes Yes
Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card USB memory Network camera Mechanics/material Enclosure material (front)	Yes Yes Yes Yes
Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card USB memory Network camera Mechanics/material Enclosure material (front) • Plastic	Yes Yes Yes Yes No
Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card USB memory Network camera Mechanics/material Enclosure material (front) Plastic Aluminum	Yes Yes Yes Yes Yes Yes
Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card USB memory Network camera Mechanics/material Enclosure material (front) Plastic Aluminum Stainless steel	Yes Yes Yes Yes No
Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card USB memory Network camera Mechanics/material Enclosure material (front) Plastic Aluminum Stainless steel Dimensions	Yes Yes Yes Yes Yes No No Yes No
Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card USB memory Network camera Mechanics/material Enclosure material (front) Plastic Aluminum Stainless steel Dimensions Width of the housing front	Yes Yes Yes Yes Yes No No Yes No
Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card USB memory Network camera Mechanics/material Enclosure material (front) • Plastic • Aluminum • Stainless steel Dimensions Width of the housing front Height of housing front	Yes Yes Yes Yes Yes No 330 mm 241 mm
Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card USB memory Network camera Mechanics/material Enclosure material (front) Plastic Aluminum Stainless steel Dimensions Width of the housing front Height of housing front Mounting cutout, width	Yes Yes Yes Yes Yes No No Yes No 330 mm 241 mm 310 mm
Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card USB memory Network camera Mechanics/material Enclosure material (front) Plastic Aluminum Stainless steel Dimensions Width of the housing front Height of housing front Mounting cutout, width Mounting cutout, height	Yes Yes Yes Yes Yes No No Yes No 330 mm 241 mm 310 mm 221 mm
Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card USB memory Network camera Mechanics/material Enclosure material (front) Plastic Aluminum Stainless steel Dimensions Width of the housing front Height of housing front Mounting cutout, width Mounting cutout, height Overall depth	Yes Yes Yes Yes Yes No No Yes No 330 mm 241 mm 310 mm
Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card USB memory Network camera Mechanics/material Enclosure material (front) Plastic Aluminum Stainless steel Dimensions Width of the housing front Height of housing front Mounting cutout, width Mounting cutout, height Overall depth Weights	Yes Yes Yes Yes Yes No No Yes No 330 mm 241 mm 310 mm 221 mm 65 mm
Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card USB memory Network camera Mechanics/material Enclosure material (front) Plastic Aluminum Stainless steel Dimensions Width of the housing front Height of housing front Mounting cutout, width Mounting cutout, height Overall depth	Yes Yes Yes Yes Yes No No Yes No 330 mm 241 mm 310 mm 221 mm

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