SIEMENS

Data sheet



SIMATIC HMI TP700 Comfort INOX, Stainless steel front, Continuous decorative film, Degree of protection front IP66K, 7" widescreen TFT display, PROFINET interface, MPI/PROFIBUS DP interface, 12 MB configuration memory, Windows CE 6.0, (Microsoft Support included Security updates discontinued) configurable from WinCC Comfort V11

General information	
Product type designation	TP700 Comfort INOX
Display	
Design of display	TFT
Screen diagonal	7 in
Display width	152.4 mm
Display height	91.4 mm
Number of colors	16 777 216
Resolution (pixels)	
 Horizontal image resolution 	800 pixel
Vertical image resolution	480 pixel
Backlighting	
 MTBF backlighting (at 25 °C) 	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)	32
Installation type/mounting	
Mounting position	vertical
Mounting in portrait format possible	Yes
Mounting in landscape format possible	Yes
maximum permissible angle of inclination without external ventilation	35°
Supply voltage	
Type of supply voltage	DC

Rated value (DC)	Data division (DO)	041/
Demostatic range, upper limit (DC)	Rated value (DC)	24 V
Injust current Courrent consumption (rated value) 0.5 A		
Current consumption (riset value)		28.8 V
Starting current inush Pt Power		0.5.1
Active power input, typ. 12 W Processor ye Processor type Mismory Flash Yes RAM Yes RAM Yes Admenory available for user data 12 Mbyte Type of output Info LED No Power LED No Acoustics • Buzzer No Speaker Yes Speaker Yes Time of day Clock • Hardware clock (real-time) • Speaker Yes • Speaker Yes Time of day Clock Interfaces Number of Industrial Ethernet interfaces Number of RS 422 interfaces Number of RS 422 interfaces Number of RS 323 interfaces O Number of Usa 323 interfaces O Number of Do No No Speaker Yes Interfaces Number of RS 323 interfaces O Number of RS 425 interfaces O Number of RS 323 interfaces O Number of RS 426 interfaces O Number of Do No Number of RS 426 interfaces O Number of RS 426 interfaces O Number of RS 427 interfaces O Number of Speaker interfaces O O O O O O O O O O O O O O O O O O O		
Active power input, typ. 12 W		0.5 A ² ·s
Processor type		
Processor type	Active power input, typ.	12 W
Flash Yes RAM Yes RAM Yes RAM Yes RAM Yes Yes Memory available for user data 12 Mbyte Type of output Info LED No No RAM Yes No RAM Yes	Processor	
Flash	Processor type	X86
RAM	Memory	
Memory available for user data 12 Mbyte	Flash	Yes
Info LED	RAM	Yes
Info LED	Memory available for user data	12 Mbyte
Power LED	Type of output	
Error LED	Info LED	No
Acoustics	Power LED	No
Speaker	Error LED	No
• Speaker Time of day Clock • Hardware clock (real-time) • Software clock • retentive • synchronizable Interfaces Number of industrial Ethermet interfaces Number of 18 232 interfaces Number of 82 321 interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of 95 Card siots Value of 50 Card siots Value of 18 Card siots Number of 18 Card siots • VB Mini B Number of 19 Card siots • VB Mini B Number of 19 Card siots • VB Mini B Number of 10 ma interfaces • VB Mini B Number of 10 ma interfaces • VB Mini B Number of 10 ma interfaces • VB Mini B Number of 10 ma interfaces • VB Mini B Number of 10 ma interfaces • VB Mini B Number of 10 ma interfaces • VB Mini B No Industrial Ethermet • Industrial Ethermet status LED • Number of 5D card siots 2 • VB Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO Yes Supports protocol for PROFINET IO PYes Ether-Net/IP Yes Protocols (Ethernet) • TQ-PIP • Yes • SNMP • DHCP • SNMP • DHCP • SNMP • DHCP • SNMP • SNMP • LLDP Yes • HTTP • HTTPS • Yes • HTTP • Yes • HTTP • HTTPS • Yes • HTTP • HTTP • Yes • HTTP • Yes • HTTP • Yes • HTTP • HTTP • HTTPS		
Clock	Buzzer	No
Clock	Speaker	Yes
	Time of day	
• Software clock • retentive • retentive • synchronizable • synchronizable Yes	Clock	
• retentive	Hardware clock (real-time)	Yes
Interfaces	 Software clock 	Yes
Number of industrial Ethernet interfaces	retentive	Yes; Back-up duration typically 6 weeks
Number of industrial Ethernet interfaces 1; 2 ports (switch) 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 • USB Mini B 1; 5-pole Number of 20 mA interfaces (TTY) 0 Number of parallel interfaces 0 Number of solution interfaces 0 Number of SD card slots 2 With software interfaces No Industrial Ethernet • Industrial Ethernet • Industrial Ethernet status LED 2 • Number of ports of the integrated switch 2 Protocols Yes PROFINET Yes Supports protocol for PROFINET IO Yes IRT Yes; As of WinCC V12 PROFIBUS Yes EtherNet/IP Yes Protocols (Ethernet) Yes • TCP/IP Yes • DHCP Yes • SNMP Yes • LLDP Yes <td> synchronizable </td> <td>Yes</td>	 synchronizable 	Yes
Number of RS 485 interfaces	Interfaces	
Number of RS 422 interfaces 0; together with RS 485 Number of RS 232 interfaces 0 Number of USB interfaces 2; USB 2.0 ■ USB Mini B 1; 5-pole Number of 20 mA interfaces (TTY) 0 Number of parallel interfaces 0 Number of other interfaces 0 Number of SD card slots 2 With software interfaces No Industrial Ethernet ■ ■ Industrial Ethernet status LED 2 ■ Number of ports of the integrated switch 2 Protocols PROFINET Yes Supports protocol for PROFINET IO Yes IRT Yes; As of WinCC V12 PROFIBUS Yes EtherNet/IP Yes MPI Yes Protocols (Ethernet) Yes • TCP/IP Yes • DHCP Yes • SNMP Yes • DCP Yes • LLDP Yes WEB characteristics HTTP • HTTP Yes	Number of industrial Ethernet interfaces	1; 2 ports (switch)
Number of RS 232 interfaces 0 Number of USB interfaces 2; USB 2.0 ■ USB Mini B 1; 5-pole Number of 20 mA interfaces (TTY) 0 Number of parallel interfaces 0 Number of other interfaces 0 Number of SD card slots 2 With software interfaces No Industrial Ethernet status LED 2 ■ Number of ports of the integrated switch 2 PROFINET Yes Supports protocol for PROFINET IO Yes IRT Yes; As of WinCC V12 PROFIBUS Yes EtherNet/IP Yes Protocols (Ethernet) Yes ● DHCP Yes ■ SNMP Yes ■ DHCP Yes ■ LLDP Yes WBB characteristics HTTP ● HTTPS Yes	Number of RS 485 interfaces	1; RS 422 / 485 combined
Number of USB interfaces 2; USB 2.0 ■ USB Mini B 1; 5-pole Number of 20 mA interfaces (TTY) 0 Number of parallel interfaces 0 Number of other interfaces 0 Number of SD card slots 2 With software interfaces No Industrial Ethernet 2 • Industrial Ethernet status LED 2 • Number of ports of the integrated switch 2 PROFINET Yes Supports protocol for PROFINET IO Yes IRT Yes; As of WinCC V12 PROFIBUS Yes EtherNet/IP Yes MPI Yes Protocols (Ethernet) Yes • TCP/IP Yes • SNMP Yes • DCP Yes • LLDP Yes WEB characteristics • HTTP Yes • HTTPS Yes	Number of RS 422 interfaces	0; together with RS 485
■ USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces 0 Number of sort other interfaces 0 Number of SD card slots 2 With software interfaces No Industrial Ethernet ■ Industrial Ethernet status LED ■ Number of ports of the integrated switch 2 Protocols PROFINET Yes Supports protocol for PROFINET IO Yes EtherNet/IP Yes Protocols (Ethernet) ■ TCP/IP OHCP SNMP ● DHCP SNMP SNMP DCP SNMP Yes WEB characteristics ● HTTP Number of 20 Month integrated switch 1; 5-pole 0 0 0 0 0 0 0 0 0 0 0 0	Number of RS 232 interfaces	0
Number of 20 mA interfaces (TTY) 0 Number of parallel interfaces 0 Number of SD card slots 2 With software interfaces No Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch 2 Protocols *** PROFINET Supports protocol for PROFINET IO Yes IRT Yes; As of WinCC V12 PROFIBUS Yes EtherNet/IP Yes MPI Yes Protocols (Ethernet) Yes • TCP/IP Yes • DHCP Yes • SNMP Yes • LLDP Yes WEB characteristics **Yes • HTTP Yes • HTTPS Yes	Number of USB interfaces	2; USB 2.0
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 • Number of ports of the integrated switch 2 PROFINET Yes Supports protocol for PROFINET IO Yes IRT Yes; As of WinCC V12 PROFIBUS Yes EtherNet/IP Yes MPI Yes Protocols (Ethernet) Yes • TCP/IP Yes • SNMP Yes • DCP Yes • LLDP Yes WEB characteristics **Yes • HTTP Yes • HTTP Yes • HTTP Yes	USB Mini B	1; 5-pole
Number of other interfaces 0 Number of SD card slots 2 With software interfaces No Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch 2 PROFINET Yes Supports protocol for PROFINET IO Yes IRT Yes; As of WinCC V12 PROFIBUS Yes EtherNet/IP Yes MPI Yes Protocols (Ethernet) Yes • TCP/IP Yes • SMMP Yes • DCP Yes • LLDP Yes WEB characteristics • HTTP • HTTP Yes • HTTPS Yes	Number of 20 mA interfaces (TTY)	0
Number of SD card slots 2 With software interfaces No Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch 2 Protocols PROFINET Supports protocol for PROFINET IO Yes IRT Yes; As of WinCC V12 PROFIBUS Yes EtherNet/IP Yes MPI Yes Protocols (Ethernet) Yes • TCP/IP Yes • DCP Yes • SNMP Yes • LLDP Yes WEB characteristics • HTTP • HTTP Yes • HTTPS Yes		0
With software interfaces Industrial Ethernet Industrial Ethernet status LED Industrial Ethere		0
Industrial Ethernet status LED	Number of SD card slots	2
		No
● Number of ports of the integrated switch Protocols PROFINET Yes Supports protocol for PROFINET IO Yes IRT Yes; As of WinCC V12 PROFIBUS Yes EtherNet/IP Yes MPI Yes Protocols (Ethernet) ● TCP/IP Yes ● DHCP Yes ● SNMP Yes ● DCP Yes ● LLDP Yes WEB characteristics ● HTTP ● HTTPS Yes Yes Yes Yes Yes Yes Yes Ye		
PROFINET Yes Supports protocol for PROFINET IO Yes IRT Yes; As of WinCC V12 PROFIBUS Yes EtherNet/IP Yes MPI Yes Protocols (Ethernet) Yes • TCP/IP Yes • DHCP Yes • SNMP Yes • DCP Yes • LLDP Yes WEB characteristics Yes • HTTP Yes • HTTPS Yes		
PROFINET Yes Supports protocol for PROFINET IO Yes IRT Yes; As of WinCC V12 PROFIBUS Yes EtherNet/IP Yes MPI Yes Protocols (Ethernet) Yes • TCP/IP Yes • DHCP Yes • SNMP Yes • DCP Yes • LLDP Yes WEB characteristics HTTP • HTTP Yes • HTTPS Yes		2
Supports protocol for PROFINET IO Yes IRT Yes; As of WinCC V12 PROFIBUS Yes EtherNet/IP Yes MPI Yes Protocols (Ethernet) Yes • TCP/IP Yes • DHCP Yes • SNMP Yes • DCP Yes • LLDP Yes WEB characteristics Yes • HTTP Yes • HTTPS Yes	Protocols	
IRT		
PROFIBUS Yes EtherNet/IP Yes MPI Yes Protocols (Ethernet) Yes • TCP/IP Yes • DHCP Yes • SNMP Yes • DCP Yes • LLDP Yes WEB characteristics HTTP • HTTPS Yes	Supports protocol for PROFINET IO	
EtherNet/IP Yes MPI Yes Protocols (Ethernet) Yes • TCP/IP Yes • DHCP Yes • SNMP Yes • DCP Yes • LLDP Yes WEB characteristics Yes • HTTP Yes • HTTPS Yes		Yes; As of WinCC V12
MPI Yes Protocols (Ethernet) Yes • TCP/IP Yes • DHCP Yes • SNMP Yes • DCP Yes • LLDP Yes WEB characteristics Yes • HTTP Yes • HTTPS Yes		
Protocols (Ethernet) • TCP/IP Yes • DHCP Yes • SNMP Yes • DCP Yes • LLDP Yes WEB characteristics Yes • HTTP Yes • HTTPS Yes	EtherNet/IP	
 TCP/IP DHCP SNMP DCP LLDP WEB characteristics HTTP HTTPS Yes Yes Yes 		Yes
 DHCP SNMP DCP LLDP Yes LLDP WEB characteristics HTTP HTTPS Yes 		
 SNMP DCP LLDP Yes WEB characteristics HTTP HTTPS Yes 		
 DCP LLDP Yes WEB characteristics HTTP HTTPS Yes HTTPS Yes 		
 ▶ LLDP WEB characteristics ▶ HTTP ▶ HTTPS Yes Yes 		
WEB characteristics • HTTP • HTTPS Yes Yes		
HTTPHTTPSYes		Yes
• HTTPS Yes		
• HTML Yes		
	• HTML	Yes

• XML	Yes
• CSS	Yes
 Active X 	Yes
 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	
IP (at the front)	IP66K
IP (rear)	IP20
NEMA (front)	
Enclosure Type 4 at the front	No
Enclosure Type 4x at the front	Yes; indoor use only
Standards, approvals, certificates	100, masor ado omy
CE mark	Yes
CULus	Yes
	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R) Use in hazardous areas	res
	Vee
ATEX Zone 2ATEX Zone 22	Yes Yes
IECEx Zone 2 IECEx Zone 2	Yes
• IECEx Zone 22	Yes
• cULus Class I Zone 1	No Yes
cULus Class I Zone 2, Division 2 FM Class I Division 2	Yes
FM Class I Division 2	Yes
Marine approval	No
Germanischer Lloyd (GL) (ABC)	No
American Bureau of Shipping (ABS)	No
Bureau Veritas (BV) Canada de Canada	No
Det Norske Veritas (DNV)	No
Lloyds Register of Shipping (LRS) No. 10 (1) (Classification of the control	No
Nippon Kaiji Kyokai (Class NK) Nippon Kaiji Kyokai (Class NK)	No
Polski Rejestr Statkow (PRS)	No
Ambient conditions	
Ambient temperature during operation	
Operation (vertical installation)	
— For vertical installation, min.	0 °C
— For vertical installation, max.	50 °C
Operation (max. tilt angle)	
— At maximum tilt angle, min.	0 °C
— At maximum tilt angle, min.	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, min.	35 °C
Ambient temperature during storage/transportation	

	00.00
• min.	-20 °C
• max.	60 °C
Relative humidity • Operation, max.	90 %; no condensation
Operating systems	30 70, NO CONCENSATION
	No
proprietary	No
pre-installed operating system • Windows CE	Yes
	l es
configuration / header	V
Message indicator	Yes
Alarm system (incl. buffer and acknowledgment)	Yes Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe management Configuration software	l es
STEP 7 Basic (TIA Portal)	No
STEP 7 Basic (TIA Portal) STEP 7 Professional (TIA Portal)	No
WinCC flexible Compact	No
WinCC flexible Compact WinCC flexible Standard	No
WinCC flexible Standard WinCC flexible Advanced	No
WinCC llexible Advanced WinCC Basic (TIA Portal)	No
WinCC Dasic (TIA Portal) 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	
and the second of the second o	
Web browser	Yes
	Yes Yes
Web browser	
Web browserPocket Word	Yes
Web browserPocket WordPocket Excel	Yes Yes
Web browserPocket WordPocket ExcelPDF Viewer	Yes Yes Yes
 Web browser Pocket Word Pocket Excel PDF Viewer Media Player 	Yes Yes Yes Yes
 Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer 	Yes Yes Yes Yes Yes Yes
 Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit 	Yes Yes Yes Yes Yes Yes Yes
Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts	Yes Yes Yes Yes Yes Yes Yes
Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner	Yes Yes Yes Yes Yes Yes Yes Yes
Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled	Yes Yes Yes Yes Yes Yes Yes Yes Yes
Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled	Yes Yes Yes Yes Yes Yes Yes Yes Yes
Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled Message system	Yes
Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled Message system Number of alarm classes	Yes
Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled Message system Number of alarm classes Bit messages	Yes
Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes 4 000 200
Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled Message system Number of alarm classes Bit messages — Number of bit messages — Number of analog messages S7 alarm number procedure System messages HMI	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes 4 000 200
Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages S7 alarm number procedure	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled task-controlled Message system Number of alarm classes Bit messages — Number of bit messages — Number of analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK,	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled Message system Number of alarm classes Bit messages — Number of bit messages Analog messages Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)	Yes
Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled Message system Number of alarm classes Bit messages — Number of bit messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled task-controlled Message system Number of alarm classes Bit messages — Number of bit messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of process values per message Number of process values per message	Yes
Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled Message system Number of alarm classes Bit messages — Number of bit messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of process values per message Acknowledgment groups Message indicator Recipe management	Yes
Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled Message system Number of alarm classes Bit messages — Number of bit messages — Number of analog messages — Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of process values per message Number of process values per message Acknowledgment groups Message indicator	Yes

a Entrino par data record	1 000
Entries per data record Size of internal regine memory	1 000
Size of internal recipe memory Recipe memory expendeble	2 Mbyte Yes
Recipe memory expandable Variables	Tes .
Number of variables per device	2 048
Number of variables per device Number of variables per screen	400
Limit values	Yes
	Yes
Multiplexing Structures	
• Structures	Yes
Arrays	Yes
Images	500
Number of configurable images Permanent window/default	Yes
	Yes
Global image Pan un images	
Pop-up images Clide in images	Yes
Slide-in images Image a sleating by PLC	Yes
Image selection by PLC Image selection by PLC	Yes
Image chiects	Yes
Image objects	400
 Number of objects per image Text fields 	Yes
I ext fields I/O fields	Yes
 Graphic I/O fields (graphics list) Symbolic I/O fields (text list)	Yes Yes
Date/time fields Switches	Yes
• Switches	Yes
Buttons Combined in the company of the com	Yes
	Yes
• Icons	Yes
Geometric objects	Yes
Complex image objects	20
Number of complex objects per screen Alerm view	20 Yes
Alarm view Tagethile	
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 ITMI Insurance	Yes
HTML browser	Yes
PDF display	Yes
IP camera display	Yes
Bar graphs	Yes
• Sliders	Yes
Pointer instruments	Yes
Analog/digital clock	Yes
Lists	500
Number of text lists per project Number of entries per text list	500
Number of entries per text list	500
Number of graphics lists per project	500
Number of entries per graphics list	500
Archiving	50
Number of archives per device	50
Number of entries per archive	20 000
Message archive	Yes
	\/
Process value archive	Yes
Process value archiveArchiving methods— Sequential archive	Yes

01 11	V
— 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	165
• \$7-1200	Yes
• \$7-1500	Yes
• \$7-200	Yes
• S7-300/400	Yes
• LOGO!	Yes
• WinAC	Yes
• SINUMERIK	Yes; with SINUMERIK option package
• 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
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	
	Voc
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
	No
SIMATIC HMI CF memory card Compact Flash Card	
USB memory SIMATIC IDC LISP Electricity (LISP stick)	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	No
Stainless steel	Yes
Dimensions	
Width of the housing front	214 mm
Height of housing front	158 mm
Mounting cutout, width	197 mm
Mounting cutout, height	141 mm
Overall depth	65 mm
Weights	
Weight (without packaging)	1.9 kg
Weight (with packaging)	2 kg

last modified: 3/2/2021 🖸