Data sheet

6AV2124-0XC02-0AX1



SIMATIC HMI TP2200 Comfort, Comfort Panel, Touch operation, 22" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 24 MB configuration memory, WEC 2013, configurable from WinCC Comfort V14 SP1 with HSP

General information	
Product type designation	TP2200 Comfort
Display	
Design of display	TFT
Screen diagonal	21.5 in
Display width	475.2 mm
Display height	267.3 mm
Number of colors	16 777 216
Resolution (pixels)	
 Horizontal image resolution 	1 920 pixel
Vertical image resolution	1 080 pixel
Backlighting	
 MTBF backlighting (at 25 °C) 	30 000 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; Analog-resistive
Expansions for operator control of the process	
Direct keys (touch buttons as S7 input I/O)	40
Installation type/mounting	
Mounting position	vertical
Mounting in portrait format possible	Yes
Mounting in landscape format possible	Yes
maximum permissible angle of inclination without external ventilation	35°
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption (rated value)	1.7 A

Ctarting current invole 12t	0.5.42.0
Starting current inrush I²t Power	0.5 A ² ·s
	44 \W
Active power input, typ.	41 W
Processor	Voc
Processor type	X86
Memory	V
Flash	Yes
RAM Mamory available for user data	
Memory available for user data Type of output	24 Mbyte
	No
Info LED Power LED	No No
Error LED	No
Acoustics	NO
Buzzer	No
Speaker	Yes
Time of day	
Clock	
Hardware clock (real-time)	Yes
Software clock	Yes
• retentive	Yes; Back-up duration typically 6 weeks
synchronizable	Yes
Interfaces	
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined
Number of RS 422 interfaces	0; together with RS 485
Number of RS 232 interfaces	0
Number of USB interfaces	2; USB 2.0
Number of 20 mA interfaces (TTY)	0
Number of parallel interfaces	0
Number of other interfaces	0
Number of SD card slots	2
With software interfaces	No
Industrial Ethernet	
Industrial Ethernet status LED	3
 Number of ports of the integrated switch 	2
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	Yes
IRT	Yes
PROFIBUS	Yes
EtherNet/IP	Yes
MPI	Yes
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
WEB characteristics	
• HTTP	Yes
• HTTPS	Yes
• HTML	Yes
• XML	Yes
• CSS	Yes
• Active X	Yes
• JavaScript	Yes
• Java VM	No
Redundancy mode	
Media redundancy	

MDD	Voc
— MRP	Yes
Further protocols • CAN	No
MODBUS	
Interrupts/diagnostics/status information	Yes
Diagnoses	Voc. C7 controller
Diagnostic information readable EMC	Yes; S7 controller
Emission of radio interference acc. to EN 55 011	
Limit class A, for use in industrial areas	Yes
Limit class A, for use in industrial areas Limit class B, for use in residential areas	No
Degree and class of protection	NO
IP (at the front)	IP65
IP (rear)	IP20
NEMA (front)	11 20
Enclosure Type 4 at the front	Yes
Enclosure Type 4x at the front	Yes
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
Use in hazardous areas	
ATEX Zone 2	Yes
ATEX Zone 22	Yes
• IECEx Zone 2	Yes
• IECEx Zone 22	Yes
• cULus Class I Zone 1	No
• cULus Class I Zone 2, Division 2	Yes; For inscription on device rating plate
• cULus Class II Division 2	No; Available soon
• FM Class I Division 2	Yes; For inscription on device rating plate
FM Class II Division 2	No; Available soon
Marine approval	
Germanischer Lloyd (GL)	No
American Bureau of Shipping (ABS)	No
Bureau Veritas (BV)	No
Det Norske Veritas (DNV)	No
Korean Register of Shipping (KRS)	No
Lloyds Register of Shipping (LRS)	No
Nippon Kaiji Kyokai (Class NK)	No
Polski Rejestr Statkow (PRS)	No
Chinese Classification Society (CCS)	No
Ambient conditions	
Suited for indoor use	Yes
Suited for outdoor use	No
Ambient temperature during operation	
Operation (vertical installation)	
— For vertical installation, min.	0 °C
— For vertical installation, max.	45 °C
Operation (max. tilt angle)	
— At maximum tilt angle, min.	0 °C
— At maximum tilt angle, max.	40 °C
Operation (vertical installation, portrait format)	
— For vertical installation, min.	0 °C
— For vertical installation, max.	40 °C
Operation (max. tilt angle, portrait format)	
— At maximum tilt angle, min.	0 °C
— At maximum tilt angle, max.	35 °C
Ambient temperature during storage/transportation	

### Commonstration **Operation**, max**	e min	20 °C
Selective humility Operation max. 90 %; no condensation Operation yeakens Op	• min.	-20 °C
Operation, max		
Operating systems Proprietary No		90 %: no condensation
Sectional peraints Section Sec	·	55 76, NO CONTROLISATION
windows CE		No
• Windows CE		INO
Configuration / Invader Yes Message indicator Yes Azim system (incl. buffer and acknowledgment) Yes Process value display (output) Yes Process value display (output) Yes Recipe management Yes Configuration software **** **** STEP 7 Basic (TIA Portal) No **** Winch Centible Compact No **** Winch Centible Advanced No **** Winch Centible Advanced No **** Winch Centible Advanced No **** Winch Centre (TIA Portal) Yes; Y14 SP1 HSP and higher **** Winche Centre (TIA Portal) Yes; Y14 SP1 HSP and higher **** Winches of anine-fundine languages 32 **** Number of anine-fundine languages 32 **** Number of anine-fundine languages 32 **** Recipitationship winder Winder (TIA Portal) Yes **** Languages per project 32 **** Languages 4 **** Protect Languages 32 **** Protect Languages 32 **** Protect Languages Yes <t< td=""><td></td><td>Yes: Windows Embedded Compact 2013</td></t<>		Yes: Windows Embedded Compact 2013
Message indicator Yes Alam system (incl. buffer and acknowledgment) Yes Process value default (inclut) possible Yes Process value default (inclut) possible Yes Recipe management Yes Configuration software ************************************		1.00, 1.1110010 <u>2.1120000</u> Compact <u>20.10</u>
Alam system (Incl. buffer and acknowledgment) Process value deslay (output) Process value deslay (output) Process value deslay (includ) Process value (in		Yes
Process value display (output) Yes		
Process value default (unput) possible		Yes
STEP 7 Basic (TIA Portal)	Process value default (input) possible	Yes
	Recipe management	Yes
■ STEP 7 Professional (TIA Portal) ■ WinCC (Excible Compact ■ WinCC (Excible Standard ■ WinCC (Excible Advanced ■ No ■ WinCC Stasic (TIA Portal) ■ WinCC Comfort (TIA Portal) ■ WinCC Professional (TIA Portal) ■ WinCC Professional (TIA Portal) ■ Yes, V14 SP1 HSP and higher ■ WinCC Professional (TIA Portal) ■ Yes, V14 SP1 HSP and higher ■ WinCC Professional (TIA Portal) ■ Yes, V14 SP1 HSP and higher ■ Vinco Advanced (TIA Portal) ■ Vinco Professional (TIA Portal) ■ Vin	Configuration software	
WinCC flexible Compact No WinCC flexible Advanced No WinCC flexible Advanced No WinCC Sasic (TIA Portal) No WinCC Comfort (TIA Portal) Yes; V14 SP1 HSP and higher WinCC Advanced (TIA Portal) Yes; V14 SP1 HSP and higher WinCC Advanced (TIA Portal) Yes; V14 SP1 HSP and higher WinCC Professional (TIA Portal) Yes; V14 SP1 HSP and higher WinCC Professional (TIA Portal) Yes; V14 SP1 HSP and higher WinCC Professional (TIA Portal) Yes; V14 SP1 HSP and higher WinCC Professional (TIA Portal) Yes V14 SP1 HSP and higher WinCC Professional (TIA Portal) Yes V14 SP1 HSP and higher Yes	 STEP 7 Basic (TIA Portal) 	No
■ WinCC flexible Standard ■ WinCC Basic (TIA Portal) ■ WinCC Comfort (TIA Portal) ■ WinCC Comfort (TIA Portal) ■ WinCC Comfort (TIA Portal) ■ WinCC Portessional (TIA Portal) ■ WinCommon (TIA Portal) ■ Win	 STEP 7 Professional (TIA Portal) 	No
	WinCC flexible Compact	No
WinCC Comfort (TIA Portal) WinCC Comfort (TIA Portal) WinCC Confort (TIA Portal) WinCC Avanced (TIA Portal) WinCC Professional (TIA Portal) Ves: V14 SP1 HSP and higher Languages Number of online/runtime languages Number of online/runtime languages Number of valuages per project Substances Ves Project languages Project languages Ves Project Word Ves Number of Ves SiMATIC WinCC Sm@rtServer Ves SiMATIC WinCC Sam@rtServer Ves SiMATIC WinCC Audit Ves Number of Vesual Basic Scripts Ves Task planner Number of alarm classes Ves Bit messages Wessage system Number of bit messages Analog messages Wessages Number of bit messages Number of silam number procedure Ves System messages HMI Ves System messages HMI Ves System messages HMI Ves System messages HMI Ves System revent, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Ves Message indicator Ves Post Ves	WinCC flexible Standard	No
WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal) Languages Number of online/runtime languages Number of online/runtime languages Number of online/runtime languages Number of online/runtime languages Number of visital Basic Scripts Web browser Pocket Word Pocket Word Pocket Excel Pop Viewer Number of Visual Basic Scripts Ves Number of Visual Basic Scripts Task planner It im-controlled Yes Number of alam classes Number of thit messages Number of characters per message System event, more (SIMATIC ST, SINUMERIK, SIMOTION,) Number of characters per message Number of recipes Number of recipes Number of recipes Number of recipes Data records per recipe Number of Long Number of recipes Number of recipes Data records per recipe Number of Long Number of recipes	WinCC flexible Advanced	No
WinCC Professional (TIA Portal) Yes; V14 SP1 HSP and higher WinCC Professional (TIA Portal) Yes; V14 SP1 HSP and higher WinCC Professional (TIA Portal) Number of online/runtime languages Number of online/runtime languages Languages Languages Languages Languages y Libraries y Libra	 WinCC Basic (TIA Portal) 	No
WinCC Professional (TIA Portal) Languages Number of online languages Number of online invitime languages Number of characters per message Number of claracters per message Number of claracters per message Number of posses values per message Number of characters per message Number of claracters per message Number of characters per message Number of characters per message Number of claracters per message Number of claracters per message Number of characters per message Number of process values per message Numb	 WinCC Comfort (TIA Portal) 	Yes; V14 SP1 HSP and higher
Online languages Number of online/runtime languages Number of online/runtime languages Languages per project Libraries Applications/options Web browser Pocket Word Pocket Excel Pocket Excel Pot Newer SiMATIC WinCC Sm@rtServer SiMATIC WinCC Audit Yes SiMATIC WinCC Audit Yes Task planner time-controlled Stask-controlled Pass ystem Number of latim classes Analog messages Number of analog messages Analog messages Number of analog messages System event, more (SIMATIC ST, SINUMERIK, SINOTION)) Number of poresses value per message Number of poresses value per message Number of process value per message Number of corrects Number of process value per message Number of process value per message Number of erceipes Nessage indicator Number of process value per message Acknowledgement groups Nessage indicator Number of frecipes Data records per recipe 1000	 WinCC Advanced (TIA Portal) 	Yes; V14 SP1 HSP and higher
Online languages 32 Project languages 32 * Languages per project 32 Functionality under WinCC (TIA Portal) Libraries Yes Applications/options ** * Web browser Yes * Pocket Word Yes * Pocket Excel Yes * POF Viewer Yes * Media Player Yes * SIMATIC WinCC Sm@rtServer Yes * SIMATIC WinCC Sudit Yes Number of Visual Basic Scripts Yes Task planner ** * time-controlled Yes * time-controlled Yes * sayseystem ** * Number of alarm classes 32 * Bit messages ** * Number of bit messages 6 000 * Analog messages 200 * 37 alarm number procedure Yes * System messages HMI Yes * System weent, more (SIMATIC S7, SINUMERIK, SIMOTION)*) ** * Number of characters per message 80 <t< td=""><td>WinCC Professional (TIA Portal)</td><td>Yes; V14 SP1 HSP and higher</td></t<>	WinCC Professional (TIA Portal)	Yes; V14 SP1 HSP and higher
Number of online/runtime languages Languages per project Libraries Applications/options Ves Applications/options Veb browser Pocket Word Pocket Excel Pocket Excel Pocket Excel SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner I time-controlled Stak-controlled Stak-contro	Languages	
Languages Languages per project 32	Online languages	
• Languages per project 32 Functionality under WinCC (TIA Portal) Libraries Yes Applications/cyptions • Web browser Yes • Pocket Word Yes • Pocket Word Yes • PDF Viewer Yes • Media Player Yes • SIMATIC WinCC Sm@rtServer Yes • SIMATIC WinCC SamertServer Yes • SiMATIC WinCC Audit Yes Number of Visual Basic Scripts Yes Task planner • ime-controlled Yes • task-controlled Yes • Number of alarm classes • Fit messages — Number of bit messages — Number of bit messages • Number of analog messages — Number of analog messages — Number of malog messages • System messages HMI • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) • Number of process values per message • Number of process values per message • Number of process values per message • Nessage indicator Recipe management • Number of recipes • Data records per recipe • Data records per recipe		32
Eutrationality under WinGC (TIA Portal) Libraries Applications/options • Web browser • Pocket Word • Pocket Excel • PDF Viewer • Media Player • SIMATIC WinCC Amult Ves • SIMATIC WinCC Audit Yes Number of Visual Basic Scripts Task planner • time-controlled Yes • lask-controlled Yes • Bit message system • Number of bit messages — Number of bit messages — Number of of alarm classes • Analog messages — Number of analog messages — Number of analog messages • S7 alarm number procedure • System messages HIII • System event, more (SIMATIC S7, SINUMERIK, SINIOTION,) • Number of process values per message • Acknowledgment groups • Acknowledgment groups • Message indicator Recipe management • Number of recipes • Data records per recipe • Data records per recipe	Project languages	
Libraries Yes Applications/options • Web browser Yes • Pocket Word Yes • Pocket Excel Yes • PoF Viewer Yes • Media Player Yes • SIMATIC WinCC Sm@rtServer Yes • SIMATIC WinCC Audit Yes Number of Visual Basic Scripts Yes Task planner • time-controlled Yes • task-controlled Yes Message system • Number of alam classes • Number of bit messages — Number of bit messages — Number of analog messages — Number of analog messages • System messages HMI • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) • Number of brocess values per message • Acknowledgment groups • Acknowledgment groups • Message indicator • Nesses were in the session of		32
Applications/options Web browser Pocket Word Yes Pocket Word Pocket Excel PDF Viewer Media Player Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Yes Number of Visual Basic Scripts Yes Lask-controlled Isak-controlled Sessage system Number of alarm classes Isit messages Number of alarm classes Sidam mumber procedure Number of analog messages Number of analog messages Number of analog messages Number of analog messages Analog messages System west messages System event, more (SIMATIC ST, SINUMERIK, SIMOTION,) Number of process values per message Acknowledgment groups Acknowledgment groups Message indicator Recipe management Number of recipes Data records per recipe Data records per recipe Number of process Sou		
Web browser Pocket Word Pocket Excel Pocket Excel Pob Viewer Media Player SiMATIC WinCC Sm@rtServer SiMATIC WinCc Audit Yes SiMATIC WinCc Audit Yes SiMATIC WinCc Audit Yes Simatic Wincc Audit Yes *** ves *** simatic Wincc Audit ** ves *** ves *** simatic Wincc Audit ** ves *** ves **		Yes
Pocket Word Pocket Excel Pocket Excel Pob Viewer Media Player Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Yes SIMATIC WinCC Audit Yes Number of Visual Basic Scripts Task planner • time-controlled Yes Message system Number of alarm classes SI Bit messages — Number of bit messages — Number of bit messages — Number of analog messages — Number of analog messages S7 alarm number procedure System event, more (SIMATIC S7, SINUMERIK, SIMOTION)) Number of characters per message Number of process values per message Number of process values per message Acknowledgment groups Message indicator Yes Recipe management Number of recipes Data records per recipe 1 000		
Pocket Excel PDF Viewer Media Player Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Yes Number of Visual Basic Scripts Task planner • time-controlled Yes Message system Number of alarm classes SIB t messages — Number of bit messages — Number of analog messages — Number of analog messages System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of process values per message Number of process values per message Number of process values per message Number of ceipes Message indicator Yes Message indicator Number of recipes Mosmore of process Number of process Number of process values per message Number of process values per message Number of recipes		
PDF Viewer Media Player Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Yes Number of Visual Basic Scripts Task planner time-controlled Yes Message system Number of alam classes Number of bit messages Number of bit messages Number of analog messages Number of process values per message Number of process values per message Acknowledgment groups Message indicator Recipe management Number of recipes Data records per recipe 1000		
Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Yes Number of Visual Basic Scripts Yes Task planner Inter-controlled Yes Number of alarm classes Sages system Number of alarm classes Sit messages — Number of bit messages — Number of analog messages — Number of analog messages System number procedure System number procedure System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Acknowledgment groups Message indicator Nesses Sou Number of recipes		
● SIMATIC WinCC Sm@rtServer Yes Number of Visual Basic Scripts Yes Task planner • time-controlled • time-controlled Yes • task-controlled Yes Message system • Number of alarm classes • Number of bit messages 6 000 • Analog messages — Number of analog messages — Number of analog messages 200 • S7 alarm number procedure Yes • System messages HMI Yes • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Yes • Number of characters per message 80 • Number of process values per message 8 • Acknowledgment groups Yes • Message indicator Yes Recipe management • Number of recipes • Data records per recipe 1 000		
SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner • time-controlled • task-controlled Number of alarm classes • Number of alarm classes • Bit messages — Number of bit messages — Number of analog messages — Number of analog messages • Aranlog messages — Number of analog messages 200 • S7 alarm number procedure • System messages HMI • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) • Number of characters per message • Acknowledgment groups • Acknowledgment groups • Message indicator Recipe management • Number of recipes • Data records per recipe 1 000	•	
Number of Visual Basic Scripts Task planner • time-controlled • task-controlled • task-controlled • Number of alarm classes • Number of bit messages — Number of bit messages 6 000 • Analog messages — Number of analog messages 200 • S7 alarm number procedure • System messages HMI • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) • Number of characters per message • Acknowledgment groups • Acknowledgment groups • Message indicator Recipe management • Number of recipes • Data records per recipe 1 000		
Task planner • time-controlled • task-controlled • task-controlled • Number of alarm classes • Number of bit messages — Number of analog messages — Number of analog messages — Number of analog messages 200 • S7 alarm number procedure • System messages HMI • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) • Number of characters per message • Acknowledgment groups • Acknowledgment groups • Message indicator Recipe management • Number of recipes • Data records per recipe 1 000		
 time-controlled task-controlled Yes Message system Number of alarm classes Bit messages Number of bit messages Analog 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 characters per message Number of process values per message Acknowledgment groups Message indicator Number of recipes Number of recipes Data records per recipe 1 000 	·	1 00
esk-controlled Message system* Number of alarm classes 32 Bit messages 6000 Analog messages 6000 Analog messages 200 S7 alarm number procedure Yes System messages HMI Yes System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message 80 Number of process values per message 80 Acknowledgment groups Yes Message indicator Yes Secipe management Number of recipes 500 Data records per recipe 1000	•	Vec
Message system Number of alarm classes Bit messages Number of bit messages Analog messages Number of analog messages Number of analog messages System number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Recipe management Number of recipes Data records per recipe 1000		
Number of alarm classes Bit messages — Number of bit messages 6 000 Analog messages — Number of analog messages ST alarm number procedure System messages HMI System vent, more (SIMATIC ST, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Acknowledgment groups Message indicator Recipe management Number of recipes Data records per recipe 1 000		100
 Bit messages — Number of bit messages 6 000 Analog messages — Number of analog messages 200 S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Acknowledgment groups Message indicator Recipe management Number of recipes Data records per recipe 1 000 		32
 Number of bit messages Analog messages Number of analog messages S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Recipe management Number of recipes Data records per recipe 6 000 200 Yes S00 Data records per recipe 200 Yes Soo Data records per recipe 200 Yes 		
 Analog messages Number of analog messages \$7 alarm number procedure \$yes \$ystem messages HMI \$yes \$yes mevent, more (SIMATIC \$7, \$INUMERIK, \$yes sIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Acknowledgment groups Message indicator Recipe management Number of recipes Data records per recipe 1 000 	<u>c</u>	6 000
 Number of analog messages \$7 alarm number procedure \$yes \$ystem messages HMI \$yes \$yes \$Number of (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Recipe management Number of recipes Number of recipes Data records per recipe 	-	
 S7 alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Recipe management Number of recipes Data records per recipe 		200
 System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Recipe management Number of recipes Data records per recipe 		
System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Acknowledgment groups Message indicator Yes Recipe management Number of recipes Data records per recipe 1 000	· · · · · · · · · · · · · · · · · · ·	
 Number of process values per message Acknowledgment groups Message indicator Recipe management Number of recipes Data records per recipe 1 000 	System event, more (SIMATIC S7, SINUMERIK,	
 Acknowledgment groups Message indicator Recipe management Number of recipes Data records per recipe 1 000 	Number of characters per message	80
 Message indicator Recipe management Number of recipes Data records per recipe 1 000 		8
 Message indicator Recipe management Number of recipes Data records per recipe 1 000 		Yes
Recipe management • Number of recipes • Data records per recipe 1 000		Yes
Data records per recipe 1 000		
	Number of recipes	500
Entries per data record 2 000	Data records per recipe	1 000
	Entries per data record	2 000

Size of internal regine memory	4 Mhyta
 Size of internal recipe memory Recipe memory expandable 	4 Mbyte Yes
Variables	TES
Number of variables per device	4 096
Number of variables per device Number of variables per screen	400
Limit values	Yes
	Yes
Multiplexing Structures	Yes
• Structures	Yes
Arrays Images	TES
Number of configurable images	750
Permanent window/default	Yes
Global image	Yes
Pop-up images	Yes
Slide-in images	Yes
Image selection by PLC	Yes
Image selection by FLC Image number in the PLC	Yes
	165
Image objects • Number of objects per image	600
Text fields	Yes
I/O fields	Yes
Graphic I/O fields (graphics list) Symbolic I/O fields (toxt list)	Yes
Symbolic I/O fields (text list) Date/time fields	Yes
Date/time fields	Yes
• Switches	Yes
Buttons	Yes
Graphic display	Yes
• Icons	Yes
Geometric objects	Yes
Complex image objects	40
Number of complex objects per screen	40
Alarm view	Yes
• Trend view	Yes
• User view	Yes
Status/control	Yes
Sm@rtClient view	Yes
Recipe view	Yes
• f(x) trend view	Yes
 System diagnostics view 	Yes
Media Player	Yes
HTML browser	Yes
PDF display	Yes
IP camera display	Yes
Bar graphs	Yes
• Sliders	Yes
Pointer instruments	Yes
Analog/digital clock	Yes
Lists	
 Number of text lists per project 	500
 Number of entries per text list 	500
 Number of graphics lists per project 	500
Number of entries per graphics list	500
Archiving	
 Number of archives per device 	50
 Number of entries per archive 	50 000
Message archive	Yes
Process value archive	Yes
Archiving methods	
•	
— Sequential archive	Yes
	Yes Yes

— Memory card	Yes
— USB memory	Yes
— Ethernet	Yes
Data storage format	
— CSV	Yes
— TXT	Yes
— RDB	Yes
Security	
 Number of user groups 	50
 Number of user rights 	32
Number of users	50
 Password export/import 	Yes
SIMATIC Logon	Yes
Logging through printer	
• Alarms	Yes
 Report (shift log) 	Yes
 Hardcopy 	Yes
Electronic print to file	Yes; PDF, HTML
Character sets	
Keyboard fonts	
— US English	Yes
Transfer (upload/download)	
MPI/PROFIBUS DP	Yes
• USB	Yes
Ethernet	Yes
using external storage medium	Yes
Process coupling	
• S7-1200	Yes
• S7-1500	Yes
• S7-200	Yes
• S7-300/400	Yes
• LOGO!	Yes
WinAC	Yes
• SINUMERIK	Yes; With SINUMERIK option package as from WinCC V15 or higher
• SIMOTION	Yes
 Allen Bradley (EtherNet/IP) 	Yes
 Allen Bradley (DF1) 	Yes
 Mitsubishi (MC TCP/IP) 	Yes
Mitsubishi (FX)	Yes
OMRON (FINS TCP)	No
OMRON (LINK/Multilink)	Yes
 Modicon (Modbus TCP/IP) 	Yes
Modicon (Modbus)	Yes
OPC UA Client	Yes
OPC UA Server	Yes
Service tools/configuration aids	
Backup/Restore manually	Yes
 Backup/Restore automatically 	Yes
 Simulation 	Yes
Device switchover	Yes
Peripherals/Options	
Printer	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes; Up to 128 MB
SIMATIC HMI SD memory card: Secure Digital memory card	Yes; Up to 2 GB
SIMATIC HMI CF memory card Compact Flash Card	No
USB memory	Yes
SIMATIC IPC USB Flashdrive (USB stick)	Yes; Up to 16 GB
SIMATIC HMI USB stick	Yes; Up to 8 GB
Network camera	Yes
Mechanics/material	
Enclosure material (front)	

DI II	N
Plastic	No
Aluminum	Yes
Stainless steel	No
Dimensions	
Width of the housing front	560 mm
Height of housing front	380 mm
Mounting cutout, width	542 mm
Mounting cutout, height	362 mm
Overall depth	73.2 mm
Weights	
Weight (without packaging)	6.7 kg

last modified: 2/29/2024 🖸