## **SIEMENS**

## **Data sheet**



SIMATIC HMI TP1200 Comfort, Comfort Panel, touch operation, 12" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 12 MB configuration memory, Windows CE 6.0, configurable from WinCC Comfort V11

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)	
<ul> <li>Horizontal image resolution</li> </ul>	1 280 pixel
Vertical image resolution	800 pixel
Backlighting	
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	80 000 h
Backlight dimmable	Yes; 0-100 %
Control elements	
Keyboard fonts	
<ul><li>Function keys</li></ul>	
<ul> <li>Number of function keys</li> </ul>	0
<ul> <li>Number of function keys with LEDs</li> </ul>	0
<ul> <li>Keys with LED</li> </ul>	No
System keys	No
<ul> <li>Numeric keyboard</li> </ul>	Yes; Onscreen keyboard
alphanumeric keyboard	Yes; Onscreen keyboard
Touch operation	
Design as touch screen	Yes; Analog-resistive
Expansions for operator control of the process	
<ul> <li>DP direct LEDs (LEDs as S7 output I/O)</li> </ul>	
— F1Fx	0
<ul> <li>Direct keys (keys as S7 input I/O)</li> </ul>	
— 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 ventilation	35°
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V

normingible range lewer limit (DC)	10.2 V
permissible range, lower limit (DC)	19.2 V 28.8 V
permissible range, upper limit (DC)	28.8 V
Input current	0.05.4
Current consumption (rated value)	0.85 A
Starting current inrush I²t	0.5 A²·s
Power	
Active power input, typ.	20 W
Processor	
Processor type	X86
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
<ul><li>Speaker</li></ul>	Yes
Time of day	
Clock	
Hardware clock (real-time)	Yes
Software clock	Yes
<ul><li>retentive</li></ul>	Yes; Back-up duration typically 6 weeks
<ul> <li>synchronizable</li> </ul>	Yes
Interfaces	
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 other interfaces	0
Number of SD card slots	2
With software interfaces	No
Industrial Ethernet	
Industrial Ethernet status LED	2
<ul> <li>Number of ports of the integrated switch</li> </ul>	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)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
WEB characteristics	
• HTTP	Yes
• HTTPS	Yes
• HTML	Yes
• XML	Yes
• CSS	Yes
<ul> <li>Active X</li> </ul>	Yes
<ul> <li>JavaScript</li> </ul>	Yes

• Java VM	No
Redundancy mode	110
Media redundancy	
— MRP	Yes; As of WinCC V12
Further protocols	100,710 0. 11
• CAN	No
MODBUS	Yes
Interrupts/diagnostics/status information	
Diagnoses	Voc. C7 controller
Diagnostic information readable	Yes; S7 controller
EMC	
Emission of radio interference acc. to EN 55 011	
<ul> <li>Limit class A, for use in industrial areas</li> </ul>	Yes
Limit class B, for use in residential areas	No
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
NEMA (front)	
<ul> <li>Enclosure Type 4 at the front</li> </ul>	Yes
<ul> <li>Enclosure Type 4x at the front</li> </ul>	Yes
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	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
<ul> <li>cULus Class I Zone 2, Division 2</li> </ul>	Yes
<ul> <li>FM Class I Division 2</li> </ul>	Yes
Marine approval	
Germanischer Lloyd (GL)	Yes; As of product version: 10
<ul> <li>American Bureau of Shipping (ABS)</li> </ul>	Yes; As of product version: 10
<ul><li>Bureau Veritas (BV)</li></ul>	Yes; As of product version: 10
<ul><li>Det Norske Veritas (DNV)</li></ul>	Yes; As of product version: 10
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	Yes; As of product version: 10
<ul> <li>Nippon Kaiji Kyokai (Class NK)</li> </ul>	Yes; As of product version: 10
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; (55 °C, see entry ID: 64847814)
Operation (max. tilt angle)	, (,,,
— At maximum tilt angle, min.	0°C
At maximum tilt angle, max.	40 °C
Operation (vertical installation, portrait format)	
— For vertical installation, min.	0 °C
For vertical installation, max.	40 °C
Operation (max. tilt angle, portrait format)	
— At maximum tilt angle, min.	0 °C
— At maximum tilt angle, max.	35 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	0°C
Relative humidity	
Operation, max.	90 %; no condensation
Operating systems	
proprietary	No
proprietary	110

Message indicator	pre-installed operating system	
Message indicator		Yes
Alam system (incl. buffer and acknowledgment)	configuration / header	
Alarm system (incl. buffer and acknowledgment)   Yes	Message indicator	Yes
Process value default (input) possible Recipe management STEP 7 Professional (TIA Portal) STEP 7 Professional (TIA Portal) WinCC flexible Standard WinCC flexible Standard WinCC flexible Standard WinCC flexible Standard WinCC flexible Advanced WinCC flexible Market WinCC flexible Market WinCC flexible W	_	Yes
Recipe management  Onfiguration software  STEP 7 Basic (TIA Portal)  STEP 7 Professional (TIA Portal)  No  STEP 7 Professional (TIA Portal)  No  WINCC Rickble Campart  No  WINCC Rickble Advanced  No  WINCC Stable Advanced  No  WINCC Confort (TIA Portal)  Ves; from V11  WINCC Advanced (TIA Portal)  WINCC Professional (TIA Portal)  Ves; from V11  WINCC Professional (TIA Portal)  Ves; from V11  Languages  Onine languages  Number of orininofuntime languages  Project languages  Languages  Ves  Languages  Ves  Profest languages  Ves  Applications options  Web trowser  Ves  Procket Excel  Profest Excel  Pr		Yes
Configuration software	Process value default (input) possible	Yes
STEP 7 Basic (TIA Portal)	Recipe management	Yes
STEP 7 Professional (TIA Portal)  WinCC Beable Standard  WinCC Beable Standard  WinCC Beable Standard  WinCC Beable Standard  WinCC Cetable Standard  WinCC Cetable Standard  WinCC Comfort (TIA Portal)  WinCC Comfort (TIA Portal)  WinCC Ordwanced (TIA Portal)  WinCC Ordwanced (TIA Portal)  WinCC Ordwanced (TIA Portal)  WinCC Ordwanced (TIA Portal)  WinCC Professional (TIA Portal)  Yes: from V11  Languages  Ordine languages  Vanumber of onlinefruntime languages  Project languages  Languages  Ves  Languages per project  32  Functionality under WinCC (TIA Portal)  Libraries  Applications/options  Web browser  Pocket Word  Pocket Excel  Pocket Word  Pocket Excel  Pocket Word  Pocket Excel  Poly Wewer  Standard WinCC Sm@rtServer  Wes  Standard WinCC Sm@rtServer  Poss  Standard WinCC Sm@rtServer  Yes  Standard WinC WinC Quitit  Yes  Standard WinC Yes  Wes  Standard WinC Yes  Wes  Standard WinC Yes  Wes  - Standard WinC Sm@rtServer  Yes  Standard WinC Yes  Wes  - Standard WinC Sm@rtServer  Yes  - Number of Islandasses  Standard Winc Small Small Stan	Configuration software	
WinCC flexible Compact   No   WinCC flexible Advanced   No   WinCC flexible Advanced   No   WinCC Confort (TIA Portal)   Yes; from V11   WinCC Advanced (TIA Portal)   Yes; from V11   WinCC Advanced (TIA Portal)   Yes; from V11   WinCC Advanced (TIA Portal)   Yes; from V11   WinCC Professional (TIA Portal)   WinCC Professional (TIA Portal)   WinCC Professional (TIA Portal)   Wes   We		No
WinCC Basic (TIA Portal) WinCC Basic (TIA Portal) WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal) Wes; from V11  Languages  Number of online/runtime languages  Number of online/runtime languages  Number of online/runtime languages  Ves Applications/cptions  Web browser Ves Pocket Word Pocket Excel Pocket Word Pocket Excel Pocket Word Ves SIMATIC WinCC Sm@rtServer SIMATIC WinCC Sm@rtServer SIMATIC WinCC Sm@rtServer SIMATIC WinCC Sm@rtServer Wes SIMATIC WinCC Sm@rtServer Sime-controlled Ves Sime-controlled Ves Sime-controlled Ves Sime-manufacture of Sime State Sta	· · · · · · · · · · · · · · · · · · ·	
WinCC flexible Advanced   No   WinCC Stalic (TIA Portal)   No   WinCC Cornfort (TIA Portal)   Yes, from V11   Yes, from V11   WinCC Advanced (TIA Portal)   Yes, from V11   Yes, from V11   WinCC Advanced (TIA Portal)   Yes, from V11   Yes, from V12   Yes, from V13   Ye	•	
WinCC Canfort (TIA Portal) WinCC Confort (TIA Portal) WinCC Confort (TIA Portal) WinCC Confort (TIA Portal) WinCC Professional (TIA Portal) Yes; from V11  Ves; from V11  Languages  Number of online/furntime languages Project languages  Languages per project 32  Project languages per project  Libraries Applications/options  Web browser Pocket Word Pocket Excel PDF Viewer Pocket Word Pocket Excel PDF Viewer Wind Bales Scripts Task planner SimATIC WinCC Audit Ves SIMATIC WinCC Audit Ves SimATIC WinC Coudit Ves SimATIC WinC Coudit Ves Simatic Wince Saves Simatic		
WinCC Comfort (TIA Portal)		
WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) Ves: from V11  Languages Online languages  Number of online/runtime languages  Languages Languages  Languages  Languages  Languages  Libraries Applications/options  Web browser Pocket Word Pocket Excel Pocket Word Pocket Excel Pocket Excel Polity Fivewer SIMATIC WinCC Sm@rtServer SIMATIC WinCC Sm@rtServer SIMATIC WinCC Sm@rtServer SIMATIC WinCC Sm@rtServer Simation (Singuages)  Number of visual Basic Scripts Task planner  Number of laram classes  Number of older more sages Number of sime mosages Number of haracters per message Number of process values per message Acknowledgment groups Number of recipes Number of variables per message Number of variables per device Number of variables per device Number of variables per screen		
wincC Professional (TIA Portal)  Languages  Number of online/runtime languages  Yes  Applications/options  Web browser  Neb browser  Neb Popt Viewer  Neb Popt Viewer  Neb Hedia Player  Neb Hedia Player  Number of Visual Basic Scripts  Number of Visual Basic Scripts  Number of Visual Basic Scripts  Number of Number of landuages  Number of analog messages  Number of analog messages  Number of analog messages  Number of analog messages  Number of onalog messages  Number of process values per message  Number of variables per device  Number of variables per device  Number of variables per screen		
Online languages  Number of online/runtime languages  Number of soline/runtime languages  Number of soline/runtime languages  Languages  Languages  Languages  Languages  Panctionality under WinCC (TIA Portal)  Libraries  Applications/options  Web browser  Pocket Word  Pocket Excel  Pocket Excel  Poli Viewer  Media Player  Media Player  SIMATIC WinCC Sm@rtServer  SIMATIC WinCC Audit  Yes  SIMATIC WinCC Audit  Yes  SIMATIC WinCC Audit  Yes  SIMATIC WinCC Audit  Yes  Wes  Simania Soline  Number of visual Basic Scripts  Task planner  Ime-controlled  Yes  Lask controlled  Yes  Number of analog messages  Number of bit messages  Analog messages  Pes  Number of analog messages  Salanda Audo  System event, more (SIMATIC ST, SINUMERIK, SIMOTION,)  Number of process values per message  Acknowledgment groups  Acknowledgment groups  Acknowledgment groups  Message indicator  Pes  Recipe menagement  Number of recipes  Oad accords per recipe  Solon  Salar Server  Salar Server  Solon  So		
Online languages  Number of online/runtime languages  Number of online/runtime languages  Languages per project  Libraries  Applications/options  Web browser  Pocket Word Pocket Excel POF Viewer Media Player Message system  Number of viana Classes  Rel messages Message system  Number of alarm classes Media Player Messages Message Indicator Messages Messages Messages Multiplexies Multiplexies Multiplexies Multiplexies Messages Messag		res, nom v r
Project languages  Languages per project 32  Functionality under WinCC (TIA Portal)  Libraries Applications/options  Web browser Pocket Excel Pocket Excel Pocket Excel Potever Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Ves SIMATIC WinCC Audit Ves SIMATIC WinCC Audit Ves SIMATIC WinCC Interver Sima Strain St		
Languages		32
Languages per project  Functionality under WinCC (TIA Portal)  Libraries  Applications/options  Web browser  Pocket Word  Pocket Excel  Po Poket Excel  Po Poket Excel  Po Poket Excel  SIMATIC WinCC Sm@rtServer  SIMATIC WinCC Audit  Yes  SIMATIC WinCC Audit  Yes  SIMATIC WinCC Audit  Yes  SIMATIC WinCC Audit  Yes  SIMATIC WinCC Index  Simatic Wince Audit  Yes  Simatic Wince Audit  Yes  Simatic Wince Audit  Yes  Task planner  Number of Visual Basic Scripts  Task planner  Number of alarm classes  Sit nessages  Number of alarm classes  Sit nessages  Number of alarm classes  Audit wince Audit  Yes  Number of alarm classes  Yes  Number of analog messages  Yes  Number of analog messages  Yes  Number of analog messages  Yes  System messages Hill  System messages Hill  Yes  System of characters per message  Acknowledgment groups  Acknowledgment groups  Acknowledgment groups  Yes  Message midicator  Yes  Recipe management  Number of recipes  Sub acknowledgment  Number of recipe  Entries per data record  1 000  Size of internal recipe memory  Pes  Variables  Number of variables per device  Number of variables per screen  Limit values  Multiplexing  Yes  Multiplexing  Yes  Multiplexing  Yes  Multiplexing  Yes  Multiplexing  Yes  Multiplexing  Yes  Media Player  Yes  Yes  Yes  Yes  Yes  Media Player  Yes  Yes  Yes  Yes  Multiplexing  Yes  Multiplexing  Yes  Multiplexing		02
Functionality under WinCC (TIA Portal)		32
Libraries		VL
Applications/options  Web browser Pocket Word Pocket Excel Pocket Excel Pocket Excel Pocket Excel Por Viewer Wes Media Player SiMATIC WinCC Sm@rtServer SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Yes Number of Visual Basic Scripts Yes Task planner  time-controlled Yes Task planner  time-controlled Yes Message system Number of alarm classes Bit messages Nes Number of folt messages Yes Number of of analog messages Number of analog messages System System messages HMI System messages HMI System west, more (SIMATIC S7, SINUMERIK, SINOTION,) Number of characters per message Number of process values per message A chanowledgment groups Acknowledgment groups Message indicator Yes Recipe management Number of recipes Data records per recipe Entities per data record 1000 Size of internal recipe memory Recipe memory expandable Yes Variables Number of variables per device Number of variables per screen Limit values Multiplexing Yes Multiplexing Yes Multiplexing Pyes		Von
Web browser		res
Pocket Word     Pocket Excel     Yes     Pocket Excel     Yes     Pocket Excel     Yes     Nedia Player     Nedia Player     SIMATIC WinCC Sm@rtServer     SIMATIC WinCC Addit     Yes     SIMATIC WinC Addit     Yes     SIMATIC WinC Addit     Yes     Task planner     itine-controlled     Yes     task-controlled     Yes     Number of alarm classes     Sage system     Number of alarm classes     Number of bit messages     Number of bit messages     Number of bit messages     Number of analog messages     Number of analog messages     System messages     Number of analog messages     System messages Yes     Number of clarictric ST, SINUMERIK,     System messages HMI     Yes     System event, more (SIMATIC ST, SINUMERIK,     SIMOTION,)     Number of process values per message     Number of process values per message     Number of process values per message     Nessage indicator     Yes     Message indicator     Yes     Number of recipes     Obata records per recipe     Sonote per recipe     So		Voc
Pocket Excel     PDF Viewer     Media Player     Media Player     SIMATIC WinCC Sm@rtServer     SIMATIC WinCC Audit     Yes     SIMATIC WinCC Audit     Yes     Number of Visual Basic Scripts     Task planner     Messages system      Number of alarm classes     Bit messages     — Number of alarm classes     Sa     Bit messages     — Number of analog messages     — Number of analog messages     — Number of analog messages     — Number of of alarm classes     System went, more (SIMATIC S7, SINUMERIK, SIMOTION,)     Number of characters per message     Number of process values per message     Number of variables per cecipe     Sudot to the values of the values		
● PDF Viewer         Yes           ● Media Player         Yes           ● SIMATIC WinCC Sm@rtServer         Yes           ● SIMATIC WinCC Audit         Yes           Number of Visual Basic Scripts         Yes           Task planner         • time-controlled           ● ime-controlled         Yes           ● sask-controlled         Yes           Message system         • Number of alarm classes           ● Bit messages         Yes           — Number of bit messages         Yes           — Number of bit messages         Yes           — Number of analog messages         Yes           — Number of analog messages         200           • S7 alarm number procedure         Yes           • System messages HMI         Yes           • System vent, more (SIMATIC S7, SINUMERIK, Yes SIMOTION,)         Yes           • Number of process values per message         80           • Number of process values per message         80           • Number of recipes         300           • Message indicator         Yes           Recipe management         • Number of recipes         500           • Entries per data record         1 000           • Size of internal recipe memory         2 Mbyte <td></td> <td></td>		
Media Player     SIMATIC WinCC Sm@rtServer     SIMATIC WinCC Audit Number of Visual Basic Scripts     Task planner         • time-controlled Yes		
● SIMATIC WinCC Audit         Yes           Number of Visual Basic Scripts         Yes           Task planner         • time-controlled         Yes           • time-controlled         Yes           • task-controlled         Yes           Message system         • Number of alarm classes         32           • Number of alarm classes         4 000           • Analog messages         Yes           — Number of bit messages         4 000           • Analog messages         Yes           — Number of analog messages         200           • S7 alarm number procedure         Yes           • System messages HMI         Yes           • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)         Yes           • Number of roracters per message         8           • Acknowledgment groups         Yes           • Message indicator         Yes           Recipe management         Yes           • Number of recipes         300           • Data records per recipe         500           • Entries per data record         1 000           • Size of internal recipe memory         2 Mbyte           • Recipe memory expandable         Yes           Variables           • Number o		
SIMATIC WinCC Audit Number of Visual Basic Scripts  Task planner  itime-controlled task-controlled Tessages Number of alarm classes Nanages Number of itimessages Nes Number of itimessages Nes Number of analog messages System number procedure Nes System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters 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 Entries per data record Entries per data record Recipe memory R	-	
Number of Visual Basic Scripts Task planner  • time-controlled • task-controlled • task-controlled • Yes  Message system  • Number of alarm classes • Sac • Bit messages  - Number of bit messages  - Analog messages  - Number of analog messages  - Number of analog messages  - Number of analog messages  - System messages HMI  • System went, 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  • Data records per recipe  • Size of internal recipe memory  • Recipe memory expandable  • Number of variables per device  • Number of variables per screen  • Multiplexing	_	
Task planner  • time-controlled Yes  Message system  • Number of alarm classes 32  • Bit messages Yes  — Number of bit messages 4000  • Analog messages Yes  — Number of 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 8  • Acknowledgment groups Yes  • Message indicator Yes  Recipe management  • Number of recipes 300  • Data records per recipe 500  • Entries per data record 1 1000  • Size of internal recipe memory 2 Mbyte Recipe memory expandable Yes  Variables  • Number of variables per device 4000  • Limit values Yes  • Multiplexing Yes		Yes
Message system         ● Number of alarm classes       32         ● Bit messages       Yes         — Number of bit messages       4 000         ● Analog messages       Yes         — 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       300         ● Data records per recipe       500         ● Entries per data record       1 000         • Size of internal recipe memory       2 Mbyte         • Recipe memory expandable       Yes         Variables       • Number of variables per device       2 048         • Number of variables per screen       400         • Limit values       Yes         • Multiplexing       Yes		
Message system  Number of alarm classes Bit messages Number of bit messages Analog messages Nes Number of analog messages Nes Number of analog messages System number procedure System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Acknowledgment groups Acknowledgment groups Acknowledgment groups Message indicator Recipe management  Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Yes  Variables Number of variables per device Number of variables per screen Number of variables per screen Mumber of variables per screen Multiplexing Yes	• time-controlled	Yes
Number of alarm classes Bit messages Nes Number of bit messages Nes Number of analog messages Nes Number of analog messages System essages HMI System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Number of variables Number of variables per device Number of variables per device Number of variables per screen	<ul><li>task-controlled</li></ul>	Yes
<ul> <li>Bit messages     — Number of bit messages     4 000 <ul> <li>Analog messages</li> <li>— Number of analog messages</li> <li>S7 alarm number procedure</li> <li>System messages HMI</li> <li>System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)</li> <li>Number of characters per message</li> <li>Number of process values per message</li> <li>Acknowledgment groups</li> <li>Message indicator</li> <li>Recipe management</li> <li>Number of recipes</li> <li>Data records per recipe</li> <li>Entries per data record</li> <li>Entries per data record</li> <li>Size of internal recipe memory</li> <li>Recipe memory expandable</li> <li>Ves</li> </ul> </li> <li>Variables</li> <li>Number of variables per device</li> <li>Number of variables per screen</li> <li>Aunumber of variables per screen</li> <li>Aunum of variables per screen</li> <li< td=""><td>Message system</td><td></td></li<></ul>	Message system	
- Number of bit messages Analog messages Yes - Number of analog messages S 7 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 Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable  Number of variables per device Number of variables per screen Ves	<ul> <li>Number of alarm classes</li> </ul>	32
<ul> <li>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     Entries per data record     Size of internal recipe memory     Recipe memory expandable     Number of variables per device     Number of variables per screen     Limit values     Multiplexing</li> </ul>	Bit messages	Yes
- 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  • Number of recipes  • Number of recipes  • Data records per recipe  • Entries per data record  • Size of internal recipe memory  • Recipe memory expandable  Variables  • Number of variables per device  • Number of variables per screen  • Number of variables per screen  • Number of variables per screen  • Multiplexing  • Multiplexing  • Yes	<ul> <li>Number of bit messages</li> </ul>	4 000
<ul> <li>S7 alarm number procedure</li> <li>System messages HMI</li> <li>System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)</li> <li>Number of characters per message</li> <li>Number of process values per message</li> <li>Acknowledgment groups</li> <li>Acknowledgment groups</li> <li>Message indicator</li> <li>Number of recipes</li> <li>Number of recipes</li> <li>Data records per recipe</li> <li>Entries per data record</li> <li>Size of internal recipe memory</li> <li>Recipe memory expandable</li> <li>Variables</li> <li>Number of variables per device</li> <li>Number of variables per screen</li> <li>Number of variables per screen</li> <li>Limit values</li> <li>Multiplexing</li> <li>Yes</li> </ul>		
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 Entries per data record Size of internal recipe memory Recipe memory expandable  Variables  Number of variables per device Number of variables per screen  Number of variables per screen  Number of variables per screen  Multiplexing  Yes  Yes  Yes		
<ul> <li>System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)</li> <li>Number of characters per message</li> <li>Number of process values per message</li> <li>Acknowledgment groups</li> <li>Message indicator</li> <li>Number of recipes</li> <li>Number of recipes</li> <li>Data records per recipe</li> <li>Entries per data record</li> <li>Size of internal recipe memory</li> <li>Recipe memory expandable</li> <li>Ves</li> </ul> Variables <ul> <li>Number of variables per device</li> <li>Number of variables per screen</li> <li>Muntiplexing</li> <li>Multiplexing</li> </ul>		
SIMOTION, )  Number of characters per message 80  Number of process values per message 8  Acknowledgment groups Yes  Message indicator 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 2 048  Number of variables per screen 400  Limit values Yes  Multiplexing Yes	•	
<ul> <li>Number of process values per message</li> <li>Acknowledgment groups</li> <li>Message indicator</li> <li>Message indicator</li> <li>Recipe management</li> <li>Number of recipes</li> <li>Data records per recipe</li> <li>Entries per data record</li> <li>Size of internal recipe memory</li> <li>Recipe memory expandable</li> <li>Variables</li> <li>Number of variables per device</li> <li>Number of variables per screen</li> <li>Limit values</li> <li>Multiplexing</li> <li>Yes</li> </ul>	SIMOTION,)	
<ul> <li>Acknowledgment groups</li> <li>Message indicator</li> <li>Yes</li> <li>Recipe management</li> <li>Number of recipes</li> <li>Data records per recipe</li> <li>Entries per data record</li> <li>Size of internal recipe memory</li> <li>Recipe memory expandable</li> <li>Yes</li> </ul> Variables <ul> <li>Number of variables per device</li> <li>Number of variables per screen</li> <li>Limit values</li> <li>Multiplexing</li> <li>Yes</li> </ul>		
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Recipe management  Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable  Variables  Number of variables per device Number of variables per screen Limit values Multiplexing  Yes		
<ul> <li>Number of recipes</li> <li>Data records per recipe</li> <li>Entries per data record</li> <li>Size of internal recipe memory</li> <li>Recipe memory expandable</li> <li>Variables</li> <li>Number of variables per device</li> <li>Number of variables per screen</li> <li>Limit values</li> <li>Multiplexing</li> <li>300</li> <li>1000</li> <li>2 Mbyte</li> <li>Yes</li> </ul>		163
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Variables  • Number of variables per device  • Number of variables per screen  • Number of variables per screen  • Limit values  • Multiplexing  Yes		
<ul> <li>Number of variables per device</li> <li>Number of variables per screen</li> <li>Limit values</li> <li>Multiplexing</li> <li>Yes</li> </ul>		
<ul> <li>Number of variables per screen</li> <li>Limit values</li> <li>Multiplexing</li> <li>Yes</li> </ul>		2 048
<ul><li>Limit values</li><li>Multiplexing</li><li>Yes</li></ul>		
		Yes
Structures     Ves	<ul> <li>Multiplexing</li> </ul>	Yes
- Graduitos	Structures	Yes

Arrays	Yes
Images	
Number of configurable images	500
Permanent window/default	Yes
Global image	Yes
Pop-up images	Yes
Slide-in images	Yes
Image selection by PLC	Yes
Image number in the PLC	Yes
Image objects	
Number of objects per image	400
Text fields	Yes
• I/O fields	Yes
<ul> <li>Graphic I/O fields (graphics list)</li> </ul>	Yes
Symbolic I/O fields (text list)	Yes
Date/time fields	Yes
Switches	Yes
Buttons	Yes
Graphic display	Yes
• Icons	Yes
Geometric objects	Yes
Complex image objects	
<ul> <li>Number of complex objects per screen</li> </ul>	20
<ul> <li>Alarm view</li> </ul>	Yes
Trend view	Yes
• User view	Yes
<ul> <li>Status/control</li> </ul>	Yes
<ul> <li>Sm@rtClient view</li> </ul>	Yes
Recipe view	Yes
<ul><li>f(x) trend view</li></ul>	Yes
<ul> <li>System diagnostics view</li> </ul>	Yes
Media Player	Yes
HTML browser	Yes
<ul> <li>PDF display</li> </ul>	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	500
Number of entries per text list     Number of graphical lists per project.	500
Number of graphics lists per project     Number of actrice per graphics lists	500
Number of entries per graphics list  Archiving	500
Archiving  ● Number of archives per device	50
Number of arctives per device     Number of entries per archive	20 000
<ul> <li>Number of entries per archive</li> <li>Message archive</li> </ul>	20 000 Yes
<ul><li>Message archive</li><li>Process value archive</li></ul>	Yes
Archiving methods	103
Sequential archive	Yes
Sequential arctive  - 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
<u> </u>	

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
SIMOTION	Yes
Allen Bradley (EtherNet/IP)	Yes
Allen Bradley (DF1)	Yes
Mitsubishi (MC TCP/IP)	Yes
Mitsubishi (MC 16F/IF)     Mitsubishi (FX)	Yes
OMRON (FINS TCP)	No
OMRON (FINS TCP)     OMRON (LINK/Multilink)	Yes
	Yes
Modicon (Modbus)      Modicon (Modbus)	
Modicon (Modbus)     ODC LIA Client	Yes
OPC UA Client     OPC UA Company	Yes
OPC UA Server  Service tools/configuration aids	Yes
Backup/Restore manually	Yes
	Yes
Backup/Restore automatically     Signal Atlanta	
Simulation     Device switch over	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	Yes; Up to 2 GB
card	
SIMATIC HMI CF memory card Compact Flash Card	No
USB memory	Yes
SIMATIC IPC USB Flashdrive (USB stick)	Yes; Up to 16 GB
SIMATIC HMI USB stick	Yes; Up to 8 GB
Network camera	Yes
Mechanics/material	
Enclosure material (front)	
Plastic	No
Aluminum	Yes
Stainless steel	No
Dimensions	
Width of the housing front	330 mm
Height of housing front	241 mm
Mounting cutout, width	310 mm
Mounting cutout, height	221 mm
Overall depth	65 mm
Weights	••
	2.9 kg
Weight (without packaging) Weight (with packaging)	2.8 kg 3.5 kg

5/27/2022 last modified: