## **Data sheet**

**SIEMENS** 



SIMATIC HMI TP700 Comfort Outdoor, Comfort Panel, touch operation, 7" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 12 MB configuration memory, Windows CE 6.0 (Microsoft support including security updates discontinued) configurable from WinCC Comfort V13 SP1 HSP

6AV2124-0GC13-0AX0

General information		
Product type designation	TP700 Comfort Outdoor	
Display		
Design of display	TFT, bonded, daylight-readable	
Screen diagonal	7 in	
Display width	152.4 mm	
Display height	91.4 mm	
Number of colors	16 777 216	
Resolution (pixels)		
<ul> <li>Horizontal image resolution</li> </ul>	800 pixel	
Vertical image resolution	480 pixel	
Backlighting		
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	50 000 h	
Backlight dimmable	Yes; LED, can be dimmed manually or automatically	
Control elements		
Keyboard fonts		
Function keys		
<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	
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		
<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)	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)	24 V	

The state of the s	40.07
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption (rated value)	0.7 A
Starting current inrush I²t	0.5 A <sup>2</sup> ·s
Power	(= v)
Active power input, typ.	17 W
Processor	
Processor type	X86
Memory	
Flash	Yes
RAM	Yes
Memory available for user data	12 Mbyte
Type of output	N
Info LED	No
Power LED	No No
Error LED	No
Acoustics	No
Buzzer     Speaker	No Vos
Speaker  Time of day	Yes
Clock	
Hardware clock (real-time)	Yes
Software clock (real-time)     Software clock	No
• retentive	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes
Interfaces	
Number of industrial Ethernet interfaces	2
Number of RS 485 interfaces	1; RS 422 / 485 combined
Number of RS 422 interfaces	1
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; WinCC V13 SP1 HSP or higher
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	No
• HTML	Yes
• XML	No
• CSS	Yes

Java VM     No     Redundancy mode     Media redundancy     — MPP     Further protectes     - CAN     No     NOBURS     - CAN     No     RODOUS     - Vea  Emission of ancio interference acci or N 55.911  - United class B, for use in residental areas     - Linet class B, for use in residental areas     - ATEX Zone 2     - Linet class B, for use in residental areas     - Linet class B, for use in residental areas     - Linet class B, for use in residental areas     - Linet class B, for use in residental areas     - Linet class B, for use in residental areas     - Linet class B, for use in residental areas     - Linet class B, for use in residental areas     - Linet class B, for use in residental areas     - Linet class B, for use in residental areas     - Linet class B, for use in residental areas     - Lin	a Activo V	No
- Jan WM  Modia redundancy - Juli P  Further protocols  - (AN No -	Active X     Leve Ceriet	
Redundancy mode  Media redundancy — MRP Further protocols	•	
Media redundancy		NO
Euro  Enco	•	Voc. WinCC V12 SD1 USD or higher
MODBUS     Yes  Emission of radio interference acc. to EN 55 011     Illinit class A, for use in industrial areas     Illinit class A, for use in industrial areas     Illinit class A, for use in industrial areas     Immit class A, for use in industrial areas     Immit class A, for use in industrial areas     If (at the front)     IP (at the fron		res, willow vis or i fior of higher
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Emission of radio interference acc. to EN 55 011  • Limit class A, for use in industrial areas  • Limit class B, for use in industrial areas  • Limit class B, for use in residential areas  • Limit class B, for use in residential areas  • No  Segme and class B, for use in residential areas  • No  Segme and class of protection  IP (at the front)  IP (asm)  NEMA (tront)  • Enclosure Type 4 at the front  • Enclosure Type 4 at the		
Emission of radio interference acc. 10 EM 55.011  • Limit class B, for use in industrial areas • Limit class B, for use in industrial areas No  Degree and class of protection IP (ear) IP (at the front) • Endosure Type 4 at the front • Enclosure Type 4 at the front • Yes • For inscription on device rating plate • Enclosure Type 4 at the front • Yes, For inscription on device rating plate • Enclosure Type 4 at the front • Yes, For inscription on device rating plate • Enclosure Type 4 at the front • Yes, For inscription on device rating plate • Enclosure Type 4 at the front • Yes, For inscription on device rating plate • Enclosure Type 4 at the front • Yes, For inscription on device rating plate • Enclosure Type 4 at the front • Yes, For inscription on device rating plate • Enclosure Type 4 at the front • Yes, For inscrip		165
Limit class A, for use in residential areas  Degree and class of protection  IP (at the front)  IP (at the front)  E (at the front)  E (act the f		
Limit class 8, for use in residential areas    Pigeth front)		Voc
Degree and class of protection   IP (at the front)   IP 66   IP (rear)   IP		
IP (at the front) IP (ear) IP	·	INU
IP20   NEMA (mont)   Enclosure Type 4 at the front   Yes    - Enclosure Type 4 x at the front   Yes    - Enclosure Type 4 x at the front   Yes    - Enclosure Type 4 x at the front   Yes		ID66
NEMA (front)  Enclosure Type 4 at the front  Enclosure Type 4 at the front  Enclosure Type 4 at the front  Enank  CLIUS  Yes  CLIUS  RCM (formerly C-TICK)  Yes  RCM (formerly C-TICK)  Yes  RCM (formerly C-TICK)  Yes  RCM (formerly C-TICK)  Yes  IUse in hazardous areas  ATEX Zone 2  Formation on device rating plate  ATEX Zone 2  Formation on device rating plate  Formation on dev		
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Enclosure Type 4x at the front Standards, approvals, certificaties  CE mark  cULus  RCM (formerly C-TICK)  Yes  RCM (formerly C-TICK)  Yes  KC approval  Use in hazardous areas  ATEX Zone 2  ATEX Zone 2  IECEx Zone 2  Yes, For inscription on device rating plate  CULus Class I Zone 1, vision 2  FM Glass I Division 2  FM Glass I Division 2  FM Glass I Division 2  Yes, For inscription on device rating plate  CULus Class I Zone 2, Division 2  Yes, For inscription on device rating plate  FM Glass I Division 2  Yes, For inscription on device rating plate  CULus Class I Zone 2, Division 2  Yes, For inscription on device rating plate  FM Glass I Division 2  Yes, For inscription on device rating plate  Pyes, For inscription on device rating plate  Pyes, For inscription on device rating plate  Yes, For inscription on device rating plate  Pyes, For inscription on device rating plate  Yes, For inscription on device rating plate  Yes, For inscription on device rating plate  Pyes, For inscription on device rating plate  Yes, For inscription on device rating plate  Pyes, For inscription on device rating plate  Yes, For inscription on device rating pl		Vac
Standards, approvals, certificates  CE mark CLILus Yes RCM (formerly C-TICK) Yes RCM (formerly C-TICK) Yes RCA proval Yes Use In hazardous areas  • ATEX Zone 2 • ATEX Zone 2 • ATEX Zone 2 • ATEX Zone 2 • IECEX Zone 2 • IECEX Zone 2 • IECEX Zone 2 • IECEX Zone 2 • CULus Class I Zone 1 • CULus Class I Zone 2 • FM Class I Division 2 • Carriad Standard	**	
CE mark  cULus  Yes  RCM (formerly C-TICK)  Yes  KC approval  Yes  Use in hazardous areas  *ATEX Zone 2  *ATEX Zone 22  *ATEX Zone 22  *ECEX Zone 22  *ECEX Zone 22  *CULus Class I Zone 1  *CULus Class I Zone 2  *ICECX Zone 22  *ICECX Zone 22  *ICECX Zone 22  *CULus Class I Zone 1  *CULus Class I Zone 1  *CULus Class I Zone 2, Division 2  *FM Class I Division 2  *American Bureau of Shipping (ABS)  *Bureau Veritas (BV)  *CHARLES VERIAN (BV)  *CHARLES	7.	165
CULUS RCM (formerly C-TICK) Yes RCM (formerly C-TICK) Yes Use in hazardous areas  ATEX Zone 2 Yes; For inscription on device rating plate ATEX Zone 2 IECEX Zone		Voc
RCM (formerly C-TICK)  KC approval  Ves  KC approval  Ves  Ves  Ves, For inscription on device rating plate  ATEX Zone 2  ATEX Zone 22  Yes; For inscription on device rating plate  ATEX Zone 22  **(ECEX Zone 2)  **(EULus Class I Zone 1)  **(EULus Class I Zone 1)  **(EULus Class I Zone 2)  **(EULus Class I Zone 2)  **(EULus Class I Zone 2)  **(EVEX Zone 2)  **(E		
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Suited for indoor use  Suited for outdoor use  Yes; Powder-coated, UV resistant  Ambient temperature during operation  Operation (vertical installation)  — For vertical installation, min. — For vertical installation, max.  Operation (max. tilt angle)  — At maximum tilt angle, max.  Operation (vertical installation, portrait format)  — For vertical installation, min. — 30 °C  — At maximum tilt angle, max.  50 °C  Operation (vertical installation, portrait format)  — For vertical installation, min. — 50 °C  Operation (max. tilt angle, portrait format)  — At maximum tilt angle, portrait format)  — At maximum tilt angle, min. — 30 °C  Operation (max. tilt angle, portrait format)  — At maximum tilt angle, min. — 30 °C — At maximum tilt angle, min. — 30 °C — At maximum tilt angle, min. — 30 °C		
Suited for indoor use  Suited for outdoor use  Yes; Powder-coated, UV resistant  Ambient temperature during operation  Operation (vertical installation)  — For vertical installation, min. — For vertical installation, max.  Operation (max. tilt angle)  — At maximum tilt angle, max.  Operation (vertical installation, portrait format)  — For vertical installation, portrait format)  — For vertical installation, min. — So °C  Operation (vertical installation, min. — For vertical installation, min. — For vertical installation, max.  So °C  Operation (max. tilt angle, portrait format)  — At maximum tilt angle, min. — At maximum tilt angle, min. — At maximum tilt angle, max.  45 °C		5 M
Suited for outdoor use  Ambient temperature during operation  Operation (vertical installation)  — For vertical installation, min. — For vertical installation, max.  Operation (max. tilt angle)  — At maximum tilt angle, min. — For vertical installation, portrait format)  — For vertical installation, min. — 50 °C  Operation (vertical installation, portrait format)  — For vertical installation, max.  50 °C  Operation (max. tilt angle, portrait format)  — For vertical installation, max.  50 °C  Operation (max. tilt angle, portrait format)  — At maximum tilt angle, min. — At maximum tilt angle, max.  45 °C		
Ambient temperature during operation  Operation (vertical installation)  — For vertical installation, min. — For vertical installation, max. 60 °C; (55 °C, see entry ID: 64847814)  Operation (max. tilt angle)  — At maximum tilt angle, min. — At maximum tilt angle, max. 50 °C  Operation (vertical installation, portrait format)  — For vertical installation, min. — For vertical installation, max. 50 °C  Operation (max. tilt angle, mox. 50 °C  Operation (vertical installation, portrait format) — At maximum tilt angle, portrait format)  — At maximum tilt angle, min. — At maximum tilt angle, max. 45 °C		
Operation (vertical installation)  — For vertical installation, min. — For vertical installation, max.  60 °C; (55 °C, see entry ID: 64847814)  Operation (max. tilt angle) — At maximum tilt angle, min. — At maximum tilt angle, max.  50 °C  Operation (vertical installation, portrait format) — For vertical installation, min. — 50 °C  Operation (max. tilt angle, portrait format) — For vertical installation, max.  50 °C  Operation (max. tilt angle, portrait format) — At maximum tilt angle, min. — At maximum tilt angle, max.  45 °C		Yes; Powder-coated, UV resistant
- For vertical installation, min 30 °C - For vertical installation, max. 60 °C; (55 °C, see entry ID: 64847814)  Operation (max. tilt angle) - At maximum tilt angle, min 30 °C - At maximum tilt angle, max. 50 °C  Operation (vertical installation, portrait format) - For vertical installation, min 30 °C - For vertical installation, max. 50 °C  Operation (max. tilt angle, portrait format) - At maximum tilt angle, min 30 °C - 30 °C - At maximum tilt angle, max. 45 °C		
— For vertical installation, max.  Operation (max. tilt angle)  — At maximum tilt angle, min. — At maximum tilt angle, max.  Operation (vertical installation, portrait format)  — For vertical installation, min. — For vertical installation, max.  Operation (max. tilt angle, portrait format)  — For vertical installation, max.  Operation (max. tilt angle, portrait format)  — At maximum tilt angle, min. — At maximum tilt angle, max.  45 °C		
Operation (max. tilt angle)  — At maximum tilt angle, min. — At maximum tilt angle, max. 50 °C  Operation (vertical installation, portrait format)  — For vertical installation, min. — For vertical installation, max. 50 °C  Operation (max. tilt angle, portrait format)  — At maximum tilt angle, min. — At maximum tilt angle, max. 45 °C		
<ul> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>50 °C</li> <li>Operation (vertical installation, portrait format)</li> <li>— For vertical installation, min.</li> <li>— For vertical installation, max.</li> <li>50 °C</li> <li>Operation (max. tilt angle, portrait format)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>45 °C</li> </ul>	·	60 °C; (55 °C, see entry ID: 64847814)
— At maximum tilt angle, max.  Operation (vertical installation, portrait format)  — For vertical installation, min.  — For vertical installation, max.  50 °C  — For vertical installation, max.  50 °C  Operation (max. tilt angle, portrait format)  — At maximum tilt angle, min.  — At maximum tilt angle, max.  45 °C	· · · · · · · · · · · · · · · · · · ·	
Operation (vertical installation, portrait format)  — For vertical installation, min.  — For vertical installation, max.  50 °C  Operation (max. tilt angle, portrait format)  — At maximum tilt angle, min.  — At maximum tilt angle, max.  45 °C		
<ul> <li>For vertical installation, min.</li> <li>For vertical installation, max.</li> <li>50 °C</li> </ul> Operation (max. tilt angle, portrait format) <ul> <li>At maximum tilt angle, min.</li> <li>At maximum tilt angle, max.</li> </ul> 45 °C	·	50 °C
<ul> <li>For vertical installation, max.</li> <li>Operation (max. tilt angle, portrait format)</li> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>45 °C</li> </ul>		
Operation (max. tilt angle, portrait format)  — At maximum tilt angle, min.  — At maximum tilt angle, max.  45 °C	— For vertical installation, min.	
<ul> <li>— At maximum tilt angle, min.</li> <li>— At maximum tilt angle, max.</li> <li>45 °C</li> </ul>	·	50 °C
— At maximum tilt angle, max. 45 °C	Operation (max. tilt angle, portrait format)	
		-30 °C
Ambient temperature during storage/transportation		45 °C
	Ambient temperature during storage/transportation	

• min.	-30 °C
• max.	-30 °C
Altitude during operation relating to sea level	
Installation altitude above sea level, max.	3 000 m; Depending on the operating temperature
Relative humidity	
Operation, max.	90 %; no condensation
Operating systems	
proprietary	No
pre-installed operating system	
Windows CE	Yes
configuration / header	
Message indicator	Yes
Alarm system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe management	Yes
Configuration software	
<ul> <li>STEP 7 Basic (TIA Portal)</li> </ul>	No
<ul> <li>STEP 7 Professional (TIA Portal)</li> </ul>	No
<ul> <li>WinCC flexible Compact</li> </ul>	No
WinCC flexible Standard	No
<ul> <li>WinCC flexible Advanced</li> </ul>	No
<ul> <li>WinCC Basic (TIA Portal)</li> </ul>	No
<ul> <li>WinCC Comfort (TIA Portal)</li> </ul>	Yes; WinCC V13 SP1 Update 7 + HSP or higher
<ul> <li>WinCC Advanced (TIA Portal)</li> </ul>	Yes; WinCC V13 SP1 Update 7 + HSP or higher
WinCC Professional (TIA Portal)	Yes; WinCC V13 SP1 Update 7 + HSP or higher
Languages	
Online languages	
Number of online/runtime languages	32
Project languages	
- Lenguages non-re-tr-t	22
Languages per project	32
Functionality under WinCC (TIA Portal)	
	Yes
Functionality under WinCC (TIA Portal)	
Functionality under WinCC (TIA Portal)  Libraries  Applications/options  • Web browser	Yes
Functionality under WinCC (TIA Portal)  Libraries  Applications/options  • Web browser  • Pocket Word	Yes Yes Yes
Eunctionality under WinCC (TIA Portal)  Libraries  Applications/options  • Web browser  • Pocket Word  • Pocket Excel	Yes Yes Yes Yes Yes
Eunctionality under WinCC (TIA Portal)  Libraries  Applications/options  • Web browser  • Pocket Word  • Pocket Excel  • PDF Viewer	Yes Yes Yes Yes Yes Yes
Eunctionality under WinCC (TIA Portal)  Libraries  Applications/options  • Web browser  • Pocket Word  • Pocket Excel  • PDF Viewer  • Media Player	Yes Yes Yes Yes Yes Yes Yes Yes
Eunctionality under WinCC (TIA Portal)  Libraries  Applications/options  • Web browser  • Pocket Word  • Pocket Excel  • PDF Viewer  • Media Player  • SIMATIC WinCC Sm@rtServer	Yes
Eunctionality under WinCC (TIA Portal)  Libraries  Applications/options  • Web browser  • Pocket Word  • Pocket Excel  • PDF Viewer  • Media Player  • SIMATIC WinCC Sm@rtServer  • SIMATIC WinCC Audit	Yes
Eunctionality under WinCC (TIA Portal)  Libraries  Applications/options  • Web browser  • Pocket Word  • Pocket Excel  • PDF Viewer  • Media Player  • SIMATIC WinCC Sm@rtServer  • SIMATIC WinCC Audit  Number of Visual Basic Scripts	Yes
Eunctionality under WinCC (TIA Portal)  Libraries  Applications/options  • 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
Eunctionality under WinCC (TIA Portal)  Libraries  Applications/options  • 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
Eunctionality under WinCC (TIA Portal)  Libraries  Applications/options  • 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
Eunctionality under WinCC (TIA Portal)  Libraries  Applications/options  • 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  Help system	Yes
Eunctionality under WinCC (TIA Portal)  Libraries  Applications/options  • 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  Help system  • Number of characters per info text	Yes
Eunctionality under WinCC (TIA Portal)  Libraries  Applications/options  • 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  Help system  • Number of characters per info text  Message system	Yes
Eunctionality under WinCC (TIA Portal)  Libraries  Applications/options  • 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  Help system  • Number of characters per info text  Message system  • Number of alarm classes	Yes
Eunctionality under WinCC (TIA Portal)  Libraries  Applications/options  • 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  Help system  • Number of characters per info text  Message system  • Number of alarm classes  • Bit messages	Yes
Eunctionality under WinCC (TIA Portal)  Libraries  Applications/options  • 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  Help system  • Number of characters per info text  Message system  • Number of alarm classes  • Bit messages  — Number of bit messages	Yes
Eunctionality under WinCC (TIA Portal)  Libraries  Applications/options  • 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  Help system  • Number of characters per info text  Message system  • Number of alarm classes  • Bit messages  — Number of bit messages  • Analog messages	Yes
Eunctionality under WinCC (TIA Portal)  Libraries  Applications/options  • 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  Help system  • Number of characters per info text  Message system  • Number of alarm classes  • Bit messages  — Number of bit messages  • Analog messages  — Number of analog messages	Yes
Eunctionality under WinCC (TIA Portal)  Libraries  Applications/options  • 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  Help system  • Number of characters per info text  Message system  • Number of alarm classes  • Bit messages  — Number of bit messages  • Analog messages  — Number of analog messages  • S7 alarm number procedure	Yes
Eunctionality under WinCC (TIA Portal)  Libraries  Applications/options  • 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  Help system  • Number of characters per info text  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	Yes
Eunctionality under WinCC (TIA Portal)  Libraries  Applications/options  • 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  Help system  • Number of characters per info text  Message system  • Number of alarm classes  • Bit messages  — Number of bit messages  • Analog messages  — Number of analog messages  • S7 alarm number procedure	Yes
Eunctionality under WinCC (TIA Portal)  Libraries  Applications/options  • 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  Help system  • Number of characters per info text  Message system  • Number of alarm classes  • Bit messages  — Number of bit messages  • Analog messages  • Analog messages  • S7 alarm number procedure  • System messages HMI  • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)	Yes
Eunctionality under WinCC (TIA Portal)  Libraries  Applications/options  • 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  Help system  • Number of characters per info text  Message system  • Number of alarm classes  • Bit messages  — Number of bit messages  • Analog messages  • Analog messages  • S7 alarm number procedure  • System messages HMI  • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)  • Number of characters per message	Yes
Libraries  Applications/options  • 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  Help system  • Number of characters per info text  Message system  • Number of alarm classes  • Bit messages  — Number of analog messages  • Analog messages  • S7 alarm number procedure  • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)  • Number of characters per message  • Number of characters per message	Yes
Eunctionality under WinCC (TIA Portal)  Libraries  Applications/options  • 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  Help system  • Number of characters per info text  Message system  • Number of alarm classes  • Bit messages  — Number of bit messages  • Analog messages  • Analog messages  • S7 alarm number procedure  • System messages HMI  • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)  • Number of characters per message	Yes

Message buffer	
<ul> <li>Number of entries</li> </ul>	1 024
<ul><li>— Circulating buffer</li></ul>	Yes
— retentive	Yes
— maintenance-free	Yes
Recipe management	
<ul> <li>Number of recipes</li> </ul>	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
• Structures	Yes
Arrays	Yes
Images	500
Number of configurable images     Dermanant window/default	500 Voc
Permanent window/default     Clabel image	Yes
Global image     Image selection by PLC	Yes Yes
Image selection by PLC     Image supplies in the PLC	
Image number in the PLC	Yes
Image objects	400
<ul><li>Number of objects per image</li><li>Text fields</li></ul>	Yes
• I/O fields	Yes
Graphic I/O fields (graphics list)	Yes
Symbolic I/O fields (text list)     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	
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
HTML browser	Yes
PDF display	Yes
IP camera display	Yes; Webcam type see FAQs
Bar graphs	Yes
• Sliders	Yes
Pointer instruments	Yes
Analog/digital clock	Yes
Lists	
Number of text lists per project	500
<ul> <li>Number of entries per text list</li> </ul>	500
<ul> <li>Number of graphics lists per project</li> </ul>	500
Number of entries per graphics list	500
Archiving	
<ul> <li>Number of archives per device</li> </ul>	50

Number of entries per archive	20,000
<ul><li>Number of entries per archive</li><li>Message archive</li></ul>	20 000 Yes
Process value archive	Yes
Archiving methods	165
Sequential archive	Yes
— Short-term archive	Yes
Memory location	163
— 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
<ul><li>Hardcopy</li></ul>	Yes
Electronic print to file	Yes; PDF, HTML
Character sets	
<ul> <li>Keyboard fonts</li> </ul>	
— US English	Yes
Transfer (upload/download)	
MPI/PROFIBUS DP	Yes
• USB	Yes
• Ethernet	Yes
using external storage medium	Yes; Backup/restore
Process coupling	
• S7-1200	Yes
• S7-1500	Yes
• \$7-200	Yes
• \$7-300/400	Yes
• LOGO!	Yes
• WinAC	Yes
• SINUMERIK	Yes; with SINUMERIK option package
SIMOTION  Allen Predict/(FtherNet/ID)	Yes
Allen Bradley (EtherNet/IP)      Allen Bradley (DE1)	Yes
Allen Bradley (DF1)     Mitsubjebi (MC TCP/IP)	Yes Yes
<ul><li>Mitsubishi (MC TCP/IP)</li><li>Mitsubishi (FX)</li></ul>	Yes
OMRON (FINS TCP)	No
OMRON (LINK/Multilink)  OMRON (LINK/Multilink)	Yes
Modicon (Modbus TCP/IP)	Yes
Modicon (Modbus)	Yes
OPC UA Client	Yes
OPC UA Server	Yes
Service tools/configuration aids	
Backup/Restore manually	Yes
Backup/Restore automatically	Yes
Simulation	Yes
Device switchover	Yes
Peripherals/Options	
Printer	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes
SIMATIC HMI SD memory card: Secure Digital memory card	Yes

SIMATIC HMI CF memory card Compact Flash Card	No
USB memory	Yes; e.g. USB RFID reader, see FAQ entry ID: 99808171
SIMATIC IPC USB Flashdrive (USB stick)	Yes
SIMATIC HMI USB stick	Yes
Network camera	Yes; See FAQ Entry ID: 62383298 and entry ID: 65647473
Accessories	
Expansion module	Optional e.g. USB RFID reader, see FAQ entry ID: 99808171
Further accessories are available	Yes; Mounting clips and 2-pin power supply connector
Mechanics/material	
Enclosure material (front)	
Plastic	No
Aluminum	Yes; Powder-coated, UV resistant
Stainless steel	No
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	67 mm
Weights	
Weight (without packaging)	1.5 kg
Weight (with packaging)	1.7 kg
Other	
Note:	Power, quantity structure and performance correspond to a standard 7" Comfort Panel

last modified:

10/7/2021