6AV2145-8GB00-0AA0

**Data sheet** 

General information

SIMATIC HMI KTP700F Mobile HW, 7.0" TFT display, 800 x 480 pixel,16m colors key and touch operation, 6 function keys, 2 illuminated push-buttons, 1x PROFINET/Industrial Ethernet interface, 1x multimedia card, 1x USB, Key-operated switch, acknowledgement switch, emergency stop/stop button configurable from WinCC Comfort V15, handwheel



General information	
Product type designation	KTP700F
Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	7 in
Color display	Yes
Number of colors	16 777 216
Resolution (pixels)	
<ul> <li>Horizontal image resolution</li> </ul>	800 pixel
<ul> <li>Vertical image resolution</li> </ul>	480 pixel
Backlighting	
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	50 000 h
Backlight dimmable	Yes; 0-100 %
Control elements	
Keyboard fonts	
Function keys	
<ul> <li>Number of function keys</li> </ul>	6
<ul> <li>Number of function keys with LEDs</li> </ul>	6
<ul> <li>Keys with LED</li> </ul>	Yes
<ul> <li>Numeric keyboard</li> </ul>	Yes; Onscreen keyboard
alphanumeric keyboard	Yes; Onscreen keyboard
Touch operation	
<ul> <li>Design as touch screen</li> </ul>	Yes
Design as multi-touch screen	No
Special operator controls	
<ul> <li>Stop button (forced blocking)</li> </ul>	Yes
<ul> <li>Emergency stop button (illuminated and forced blocking)</li> </ul>	Yes
<ul> <li>Acknowledgement button (3-stage)</li> </ul>	Yes
<ul> <li>Key-operated switch</li> </ul>	Yes
<ul> <li>Illuminated pushbutton</li> </ul>	Yes
Handwheel	Yes
Camera	
integrated camera	No
Expansions for operator control of the process	
Direct keys (touch buttons as S7 input I/O)	32
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V

normingible range lewer limit (DC)	10.21/
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Memory	V
Flash	Yes
RAM Marrow available for year data	Yes 42 Mb. 45
Memory available for user data	12 Mbyte
Type of output	
Power LED	No
LED for safe	No
LED for communication	No
LED for battery	No
Vibrations	No
Time of day	
Clock	V
Hardware clock (real-time)	Yes
• retentive	Yes
synchronizable	Yes
Interfaces	
Number of industrial Ethernet interfaces	1
Number of PROFINET interfaces	1
Number of RS 485 interfaces	0
Number of RS 422 interfaces	0
Number of RS 232 interfaces	0
Number of USB interfaces	1; USB 2.0
Number of SD cord slate	0
Number of SD card slots	1
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	Yes
PROFISATE PROFISATE	Yes
PROFIBUS	No
EtherNet/IP	Yes
MPI	No
Protocols (Ethernet)	Vea
• TCP/IP	Yes
DHCP     SNMP	Yes
• SNMP	Yes
<ul><li>DCP</li><li>LLDP</li></ul>	Yes Yes
WEB characteristics	160
HTTP	Yes
• HTTPS	Yes
• HTML	Yes
• XML	No
• CSS	Yes
• Active X	No
JavaScript	Yes
Java VM	No
Further protocols	
• MODBUS	Yes
other bus systems	No
communication functions / header	
Wireless communication	
supported standards	
Radio standard WLAN 802.11	No
Radio standard WLAN 602.11      Bluetooth radio standard	No
	110
Degree and class of protection	Von
IP65 (all-round)	Yes
Standards, approvals, certificates	

Vest	CE mark	Yes
Column		
FM approval		
RCM (formerly C-TICK)		
Marine approval		
EAC (formerly Cost-R)		
Suitable for safety functions		
Manine approval		
Highest safety, class achievable in safety mode	·	
		110
Silt. acu to IEC 61508   Silt. 3	·	PI e
See in Azardous areas	_	
		No
FM Class II Division 2  Marine approval Germanischer Lloyd (GL) Polski Rejestr Statkow (PRS) No  Ambient conditions  Free fall Fall height, max. 1.2 m  Ambient temperature during operation imax. 45 °C  Ambient temperature during storage/transportation imin. 00 °C imax. 45 °C  Ambient temperature during storage/transportation imin. 00 °C Relative humidity Operating systems  Pre-installed operating system Windows CE  Configuration / header  Message indicator Alarm system (incl. buffer and acknowledgment) Process value default (input) possible Recipe management Yes  Process value default (input) possible Process value default (input) possible PSEP 7 Basic (TIA Portal) WinCC flexible Compact WinCC flexible Compact WinCC Statical Andreal WinCC Confort (TIA Portal) WinCC Confort (TIA Portal) WinCC Professional (TIA Portal) WinCD WinCD WinCD WinCD W		
Germanischer Lloyd (GL)		
• Germanischer Lloyd (GL) • Polski Rejestr Statkow (PRS) No Ambient conditions  Free fall • Fall height, max. 1.2 m  Ambient temperature during operation • min. • min. • min. • min. • min. • min. • 20 °C Ambient temperature during storage/transportation • min. • min. • 20 °C Relative humidity • Operation, max. 60 °C Relative humidity • Operation, max.  Operation, max.  Yes  Configuration / header  Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible • STEP 7 Professional (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC Cflexible Standard • WinCC flexible Standard • WinCC Cflexible Advanced • WinCC Confort (TIA Portal) • WinCC Confort (TIA Portal) • WinCC Corfossional (TIA Portal) • WinCC Corfost (TIA Portal) • WinCC Corfost (TIA Portal) • WinCC Corfost (TIA Portal) • WinCC Professional (TIA Portal)		
Polski Rejestr Statkow (PRS)  Ambient conditions  Free fall Feal height, max.  Ambient temperature during operation  min. o 0 °C max. 45 °C  Ambient temperature during storage/transportation  min. o 20 °C Ambient temperature during storage/transportation  min. o 20 °C Ambient temperature during storage/transportation  min. o 20 °C Relative humidity Operating systems  pre-installed operating system  Windows CE Vindows CE Alarm system (incl. buffer and acknowledgment) Process value display (output) Yes Recipe management Ves Recipe management Ves Configuration software  STEP 7 Professional (TIA Portal) No STEP 7 Professional (TIA Portal) No WinCC flexible Standard No WinCC flexible Standard No WinCC Basic (TIA Portal) WinCC Standard WinCC Confort (TIA Portal) WinCC MincC Minc Minc Minc Minc Minc Minc Minc Minc		Yes
Free fall  Fall height, max.  Ambient temperature during operation  min. min. min. min. min. min. min. mi		No
Free fall     • Fall height, max.   1.2 m     Ambient temperature during operation     • min.   0 ° ° C     • max.   45 ° C     Ambient temperature during storage/transportation     • min.   -20 ° C     • max.   60 ° C     Relative humidity     • Operation, max.   90 %     Operating systems     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     Procepe management   Yes     Configuration software     • STEP 7 Basic (TIA Portal)   No     • WinCC flexible Compact   No     • WinCC flexible Advanced   No     • WinCC flexible Advanced   No     • WinCC Dasic (TIA Portal)   Yes     • WinCC Professional (TIA Portal)   Yes		
Ambient temperature during operation  • min. • max. 45 °C  Ambient temperature during storage/transportation  • min. • min. • min. • max. 60 °C  Relative humidity • Operation, max. 90 %  Operating systems  pre-installed operating system • Windows CE  Configuration / header  Message indicator  Message indicator  Alarm system (incl. buffer and acknowledgment) Process value default (input) possible Process value default (input) possible  • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Advanced • WinCC flexible Advanced • WinCC flexible Advanced • WinCC Gexion (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Omfort (TIA Portal) • WinCC Professional (TIA Portal)		
Ambient temperature during operation  • min. • max. 45 °C  Ambient temperature during storage/transportation  • min. • min. • max. 60 °C  Relative humidity • Operation, max. 90 %  Operating systems  pre-installed operating system • Windows CE configuration / header  Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management  Ostep 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Standard • WinCC flexible Advanced • WinCC flexible Advanced • WinCC flexible Advanced • WinCC Gesional (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Omfort (TIA Portal) • WinCC Professional (TIA Portal)		1.2 m
• min. • max. Ambient temperature during storage/transportation • min. • max. 60 °C  Relative humidity • Operation, max. 90 %  Operating systems  re-installed operating system • Windows CE  **Configuration / header*  Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value display (output) Process value default (input) possible Recipe management • STEP 7 Basic (TIA Portal) • STEP 7 Rofessional (TIA Portal) • WinCC flexible Standard • WinCC flexible Standard • WinCC flexible Advanced • WinCC Sasic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Gensic (TIA Portal) • WinCC Sasic (TIA Portal) • WinCC Sessic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Rexible Standard • WinCC Sessic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Deficition Average (TiA Portal) • WinCC Professional (TIA Portal) • WinCC Deficition Average (TiA Portal) • WinCC Revible Standard • WinCC Comfort (TIA Portal) • WinCC Deficition Average (TiA Portal) • WinCC Revible Standard • WinCC Revible Standard • WinCC Revible Standard • WinCC Revible Standard • WinCC Sessic (TIA Portal) • WinCC Gensional (TIA Portal) • WinCC Revible Standard • WinCC Revible Standard • WinCC Sessic (TIA Portal) • WinCC		
Ambient temperature during storage/transportation  inin.		0 °C
• min. • max. • max. 60 °C  Relative humidity • Operation, max. 90 %  Operating systems  pre-installed operating system • Windows CE  Configuration / header  Message indicator  Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Process value default (input) possible Process value Gefault Gef	• max.	45 °C
	Ambient temperature during storage/transportation	
Relative humidity  Operating systems  pre-installed operating system  Windows CE  Orfiguration / header  Message indicator  Alarm system (incl. buffer and acknowledgment)  Process value display (output)  Process value default (input) possible  Recipe management  Onfiguration software  STEP 7 Basic (TIA Portal)  WinCC flexible Compact  WinCC flexible Standard  WinCC flexible Advanced  WinCC Basic (TIA Portal)  WinCC Comfort (TIA Portal)  WinCC Comfort (TIA Portal)  WinCC Gasic (TIA Portal)  WinCC Governor (TIA Portal)  WinCC Governor (TIA Portal)  WinCC Governor (TIA Portal)  WinCC Advanced (TIA Portal)  WinCC Professional (TIA Portal)	• min.	-20 °C
● Operating systems  pre-installed operating system  ● Windows CE  Message indicator  Alarm system (incl. buffer and acknowledgment)  Process value display (output)  Process value default (input) possible  Recipe management  Configuration software  ● STEP 7 Basic (TIA Portal)  ● WinCC flexible Compact  ● WinCC flexible Standard  ● WinCC flexible Advanced  ● WinCC Basic (TIA Portal)  ● WinCC Comfort (TIA Portal)  ● WinCC Comfort (TIA Portal)  ● WinCC Professional (TIA Portal)  ● WinCC Professional (TIA Portal)  ● WinCC Fasic (TIA Portal)  ● WinCC Resible Advanced  ● WinCC Resible Advanced  ● WinCC Resible Advanced  ● WinCC Foreises (TIA Portal)  ● WinCC Advanced (TIA Portal)  ● WinCC Professional (TIA Portal)	• max.	60 °C
pre-installed operating system  Windows CE  Ves  configuration / header  Message indicator  Alarm system (incl. buffer and acknowledgment)  Process value display (output)  Process value default (input) possible  Recipe management  STEP 7 Basic (TIA Portal)  WinCC flexible Compact  WinCC flexible Standard  WinCC flexible Standard  WinCC Basic (TIA Portal)  WinCC Basic (TIA Portal)  WinCC Basic (TIA Portal)  WinCC Comfort (TIA Portal)  WinCC Comfort (TIA Portal)  WinCC Resible Advanced  WinCC Advanced (TIA Portal)  WinCC Comfort (TIA Portal)  WinCC Comfort (TIA Portal)  WinCC Professional (TIA Portal)  WinCC Professional (TIA Portal)  WinCC Professional (TIA Portal)  WinCC Professional (TIA Portal)  Yes  WinCC Professional (TIA Portal)  Yes  WinCC Professional (TIA Portal)  Yes  Number of online/runtime languages	Relative humidity	
Pre-installed operating system  Windows CE  Ves  Configuration / header  Message indicator  Alarm system (incl. buffer and acknowledgment)  Process value display (output)  Process value default (input) possible  Process value default (input) possible  Yes  Recipe management  Configuration software  STEP 7 Basic (TIA Portal)  STEP 7 Professional (TIA Portal)  WinCC flexible Compact  WinCC flexible Standard  WinCC flexible Standard  WinCC Basic (TIA Portal)  WinCC Basic (TIA Portal)  WinCC Advanced  Yes  WinCC Advanced (TIA Portal)  WinCC Comfort (TIA Portal)  WinCC Professional (TIA Portal)  Yes  WinCL anguages  Online languages	<ul> <li>Operation, max.</li> </ul>	90 %
Windows CE  Configuration / header  Message indicator  Message indicator  Alarm system (incl. buffer and acknowledgment)  Process value display (output)  Process value default (input) possible  Recipe management  STEP 7 Basic (TIA Portal)  WinCC flexible Compact  WinCC flexible Standard  WinCC flexible Advanced  WinCC Basic (TIA Portal)  WinCC Basic (TIA Portal)  WinCC Comfort (TIA Portal)  WinCC Comfort (TIA Portal)  WinCC Resional (TIA Portal)  WinCC Advanced (TIA Portal)  WinCC Professional (TIA Portal)	Operating systems	
Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Yes  Configuration software  STEP 7 Basic (TIA Portal) STEP 7 Professional (TIA Portal) WinCC flexible Compact WinCC flexible Standard WinCC flexible Advanced WinCC Basic (TIA Portal) WinCC Comfort (TIA Portal) WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal)	pre-installed operating system	
Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Yes  Configuration software  • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Pofessional (TIA Portal) • WinCC Pofessional (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Professional (TIA Portal)	<ul> <li>Windows CE</li> </ul>	Yes
Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Yes  Configuration software  • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Professional (TIA Portal)	configuration / header	
Process value display (output) Process value default (input) possible Recipe management Yes  Configuration software   • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Ontion (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal)  • WinCC Professional (TIA Portal)	Message indicator	Yes
Process value default (input) possible  Recipe management  Yes  Configuration software  STEP 7 Basic (TIA Portal)  STEP 7 Professional (TIA Portal)  WinCC flexible Compact  WinCC flexible Standard  WinCC flexible Advanced  WinCC Basic (TIA Portal)  WinCC Comfort (TIA Portal)  WinCC Comfort (TIA Portal)  WinCC Professional (TIA Portal)  Yes  Online languages  Number of online/runtime languages	Alarm system (incl. buffer and acknowledgment)	Yes
Recipe management  Configuration software  STEP 7 Basic (TIA Portal) STEP 7 Professional (TIA Portal) WinCC flexible Compact WinCC flexible Standard WinCC flexible Advanced WinCC Basic (TIA Portal) WinCC Comfort (TIA Portal) WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal) STEP 7 Professional (TIA Portal) No WinCC Basic (TIA Portal) Yes WinCC Negrous (TIA Portal) Yes WinCC Professional (TIA Portal) Yes  Languages Online languages Number of online/runtime languages 32	Process value display (output)	Yes
Configuration software  STEP 7 Basic (TIA Portal) STEP 7 Professional (TIA Portal) WinCC flexible Compact WinCC flexible Standard WinCC flexible Advanced WinCC Basic (TIA Portal) WinCC Comfort (TIA Portal) WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) STEP 7 Basic (TIA Portal) No WinCC Basic (TIA Portal) Yes WinCC Professional (TIA Portal) Yes  Uninc Professional (TIA Portal) Yes  Uninc Professional (TIA Portal) Yes	Process value default (input) possible	Yes
<ul> <li>STEP 7 Basic (TIA Portal)</li> <li>STEP 7 Professional (TIA Portal)</li> <li>WinCC flexible Compact</li> <li>WinCC flexible Standard</li> <li>WinCC flexible Advanced</li> <li>WinCC Basic (TIA Portal)</li> <li>WinCC Comfort (TIA Portal)</li> <li>WinCC Advanced (TIA Portal)</li> <li>WinCC Professional (TIA Portal)</li> <li>Yes</li> <li>WinCC Professional (TIA Portal)</li> <li>WinCC Professional (TIA Portal)</li> <li>WinCC Professional (TIA Portal)</li> </ul>	Recipe management	Yes
<ul> <li>STEP 7 Professional (TIA Portal)</li> <li>WinCC flexible Compact</li> <li>WinCC flexible Standard</li> <li>WinCC flexible Advanced</li> <li>WinCC Basic (TIA Portal)</li> <li>WinCC Comfort (TIA Portal)</li> <li>WinCC Advanced (TIA Portal)</li> <li>WinCC Professional (TIA Portal)</li> <li>Yes</li> <li>WinCC Professional (TIA Portal)</li> <li>WinCC Professional (TIA Portal)</li> </ul> Languages Online languages <ul> <li>No</li> <li>Standard</li> <li>No</li> <li>Yes</li> </ul>	Configuration software	
<ul> <li>WinCC flexible Compact</li> <li>WinCC flexible Standard</li> <li>WinCC flexible Advanced</li> <li>WinCC Basic (TIA Portal)</li> <li>WinCC Comfort (TIA Portal)</li> <li>WinCC Advanced (TIA Portal)</li> <li>WinCC Professional (TIA Portal)</li> <li>Yes</li> <li>WinCC Professional (TIA Portal)</li> <li>Yes</li> <li>WinC Professional (TIA Portal)</li> </ul>	STEP 7 Basic (TIA Portal)	No
<ul> <li>WinCC flexible Standard</li> <li>WinCC flexible Advanced</li> <li>WinCC Basic (TIA Portal)</li> <li>WinCC Comfort (TIA Portal)</li> <li>WinCC Advanced (TIA Portal)</li> <li>WinCC Professional (TIA Portal)</li> <li>Yes</li> <li>WinCC Professional (TIA Portal)</li> <li>Yes</li> </ul> Languages <ul> <li>Number of online/runtime languages</li> <li>32</li> </ul>	<ul> <li>STEP 7 Professional (TIA Portal)</li> </ul>	No
WinCC flexible Advanced     WinCC Basic (TIA Portal)     WinCC Comfort (TIA Portal)     WinCC Advanced (TIA Portal)     WinCC Professional (TIA Portal)     Yes     WinCC Professional (TIA Portal)      Yes  Unline languages     Number of online/runtime languages  32	<ul> <li>WinCC flexible Compact</li> </ul>	No
WinCC Basic (TIA Portal)     WinCC Comfort (TIA Portal)     WinCC Advanced (TIA Portal)     WinCC Professional (TIA Portal)     WinCC Professional (TIA Portal)  Conline languages     Number of online/runtime languages  32	<ul> <li>WinCC flexible Standard</li> </ul>	No
WinCC Comfort (TIA Portal)     WinCC Advanced (TIA Portal)     WinCC Professional (TIA Portal)  Yes WinCC Professional (TIA Portal)  Yes  Ves  Languages  Online languages  Number of online/runtime languages  32	<ul> <li>WinCC flexible Advanced</li> </ul>	No
WinCC Advanced (TIA Portal)     WinCC Professional (TIA Portal)  Yes  Languages  Online languages  Number of online/runtime languages  32	<ul> <li>WinCC Basic (TIA Portal)</li> </ul>	No
WinCC Professional (TIA Portal)  Languages  Online languages  Number of online/runtime languages  32	<ul> <li>WinCC Comfort (TIA Portal)</li> </ul>	Yes
Languages   Online languages   ● Number of online/runtime languages   32	<ul> <li>WinCC Advanced (TIA Portal)</li> </ul>	Yes
Online languages  • Number of online/runtime languages 32	<ul> <li>WinCC Professional (TIA Portal)</li> </ul>	Yes
Number of online/runtime languages     32	Languages	
	Online languages	
Project languages	Number of online/runtime languages	32
	Project languages	

Languages per project	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	
Web browser	Yes
Pocket Word	No
Pocket Excel	No
PDF Viewer	Yes
Media Player	No
<ul> <li>SIMATIC WinCC Sm@rtServer</li> </ul>	Yes
SIMATIC WinCC Audit	Yes
Number of Visual Basic Scripts	Yes
Task planner	
<ul> <li>time-controlled</li> </ul>	Yes
task-controlled	Yes
Help system	
Number of characters per info text	500
Multiproject	
<ul> <li>Number of projects (internal)</li> </ul>	0
Number of projects (external)	0
Message system	
Number of alarm classes	32
Bit messages	
Number of bit messages	4 000
Analog messages	
— Number of analog messages	200
S7 alarm number procedure	Yes
System messages HMI     COMMATIC CT. COMMATIC	Yes
System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)	Yes
Number of characters per message	80
Number of process values per message	8
Acknowledgment groups     Massage indicates	Yes
Message indicator     Message huffer	Yes
Message buffer  Number of antrice	1.024
Number of entries	1 024
— Circulating buffer	Yes
— retentive	Yes
— maintenance-free	Yes
Recipe management	300
Number of recipes     Data records per recipe	300 500
Data records per recipe     Entries per data record	1 000
<ul><li>Entries per data record</li><li>Size of internal recipe memory</li></ul>	
Recipe memory expandable	2 Mbyte Yes
Variables	160
Number of variables per device	2 048
Number of variables per device     Number of variables per screen	400
Limit values	Yes
Multiplexing	Yes
Structures	Yes
Arrays	Yes
Images	
Number of configurable images	500
Permanent window/default	Yes
Global image	Yes
Image selection by PLC	Yes
Image selection by 1 25     Image number in the PLC	Yes
Image objects	
Number of objects per image	400
7 p	

Text fields	Yes
• I/O fields	Yes
<ul> <li>Graphic I/O fields (graphics list)</li> </ul>	Yes
<ul> <li>Symbolic I/O fields (text list)</li> </ul>	Yes
<ul> <li>Date/time fields</li> </ul>	Yes
<ul> <li>Switches</li> </ul>	Yes
Graphic display	Yes
• Icons	Yes
Geometric objects	Yes
Complex image objects	
<ul> <li>Number of complex objects per screen</li> </ul>	20
Alarm view	Yes
<ul> <li>Trend view</li> </ul>	Yes
• User view	Yes
Status/control	Yes
Sm@rtClient view	Yes
Recipe view	Yes
• f(x) trend view	Yes
System diagnostics view	Yes
Media Player	Yes
Bar graphs	Yes
Sliders	Yes
Pointer instruments	Yes
Analog/digital clock	Yes
Lists	
Number of text lists per project	500
Number of entries per text list	500
Number of graphics lists per project	500
Number of entries per graphics list	500
Archiving	500
Number of archives per device	50
	20 000
Number of entries per archive     Message problem	Yes
Message archive     Process value archive	
	Yes
Archiving methods	V
— Sequential archive	Yes
— Short-term archive	Yes
Memory location	
— Memory card	Yes
— USB memory	Yes
— Ethernet	Yes
Data storage format	
— CSV	Yes
— TXT	No
— RDB	Yes
Security	
<ul> <li>Number of user groups</li> </ul>	50
<ul> <li>Number of user rights</li> </ul>	32
<ul> <li>Number of users</li> </ul>	50
<ul> <li>Password export/import</li> </ul>	Yes
	Yes
SIMATIC Logon	
SIMATIC Logon     Logging through printer	
SIMATIC Logon  Logging through printer     Alarms	Yes
Logging through printer  • Alarms	Yes
Logging through printer  • Alarms  • Electronic print to file	
Logging through printer	Yes
Logging through printer  • Alarms  • Electronic print to file  Character sets  • Keyboard fonts	Yes Yes; PDF, HTML
Logging through printer  • Alarms  • Electronic print to file  Character sets  • Keyboard fonts  — US English	Yes
Logging through printer  • Alarms  • Electronic print to file  Character sets  • Keyboard fonts  — US English  Transfer (upload/download)	Yes Yes; PDF, HTML Yes
Logging through printer  • Alarms  • Electronic print to file  Character sets  • Keyboard fonts  — US English	Yes Yes; PDF, HTML

• Ethernet	Yes
Wireless LAN	No
<ul> <li>using external storage medium</li> </ul>	No
Process coupling	
• S7-1200	Yes
• S7-1500	Yes
• S7-200	Yes
• S7-300/400	Yes
• LOGO!	Yes
<ul><li>WinAC</li></ul>	No
• SINUMERIK	Yes
• SIMOTION	Yes
<ul> <li>Allen Bradley (EtherNet/IP)</li> </ul>	Yes
<ul> <li>Allen Bradley (DF1)</li> </ul>	No
<ul> <li>Mitsubishi (MC TCP/IP)</li> </ul>	Yes
<ul><li>Mitsubishi (FX)</li></ul>	No
<ul><li>OMRON (FINS TCP)</li></ul>	Yes
<ul> <li>OMRON (LINK/Multilink)</li> </ul>	No
<ul> <li>Modicon (Modbus TCP/IP)</li> </ul>	Yes
Modicon (Modbus)	No
Service tools/configuration aids	
<ul> <li>Backup/Restore manually</li> </ul>	Yes
<ul> <li>Backup/Restore automatically</li> </ul>	Yes
<ul><li>Simulation</li></ul>	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
USB memory	Yes
Network camera	Yes
Additional software components loadable	Yes; SIMATIC options
Mechanics/material	
Enclosure material (front)	
<ul> <li>Plastic</li> </ul>	Yes
<ul> <li>Aluminum</li> </ul>	No
Stainless steel	No
Dimensions	
Width of the housing front	248.4 mm
Height of housing front	171.7 mm
Weights	
Maight (without poolsoning)	4.01
Weight (without packaging)	1.3 kg

last modified: 9/20/2021 🖸