Data sheet





General information	
Product type designation	KP1200 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)	
 Horizontal image resolution 	1 280 pixel
 Vertical image resolution 	800 pixel
Backlighting	
 MTBF backlighting (at 25 °C) 	80 000 h
 Backlight dimmable 	Yes; 0-100 %
Control elements	
Keyboard fonts	
Function keys	
 Number of function keys 	34
 Number of function keys with LEDs 	34
 Keys with LED 	Yes
System keys	Yes
 Numeric keyboard 	Yes
alphanumeric keyboard	Yes; similar to mobile phone
Touch operation	
Design as touch screen	No
Expansions for operator control of the process	
 DP direct LEDs (LEDs as S7 output I/O) 	
— F1Fx	34
 Direct keys (keys as S7 input I/O) 	
— F1Fx	34
 Direct keys (touch buttons as S7 input I/O) 	0
Installation type/mounting	
Mounting position	vertical
Wall mounting/direct mounting	No
Mounting in portrait format possible	No
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	20.0 V
	0.85 A
Current consumption (rated value)	
Starting current inrush I²t	0.5 A ² ·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	Yes
Power LED	No
Error LED	No
Acoustics	
Buzzer	No
• Speaker	Yes
Time of day	
Clock	
	Voc
Hardware clock (real-time)	Yes
Software clock	Yes
• retentive	Yes; Back-up duration typically 6 weeks
• cynchronizablo	Yes
synchronizable	100
Interfaces	
Interfaces Number of industrial Ethernet interfaces	1; 2 ports (switch)
Number of industrial Ethernet interfaces Number of RS 485 interfaces	
Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces	1; 2 ports (switch) 1; RS 422 / 485 combined 1
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces	1; 2 ports (switch) 1; RS 422 / 485 combined 1 0
Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces	1; 2 ports (switch) 1; RS 422 / 485 combined 1
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B	1; 2 ports (switch) 1; RS 422 / 485 combined 1 0
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces	1; 2 ports (switch) 1; RS 422 / 485 combined 1 0 2; USB 2.0
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B	1; 2 ports (switch) 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY)	1; 2 ports (switch) 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces	1; 2 ports (switch) 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of other interfaces	1; 2 ports (switch) 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots	1; 2 ports (switch) 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 2
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of SD card slots With software interfaces	1; 2 ports (switch) 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 2
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of SD card slots With software interfaces Industrial Ethernet	1; 2 ports (switch) 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 2 No
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED	1; 2 ports (switch) 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 2 No
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch	1; 2 ports (switch) 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 2 No
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET	1; 2 ports (switch) 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch	1; 2 ports (switch) 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No Yes Yes
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO	1; 2 ports (switch) 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT	1; 2 ports (switch) 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 Yes Yes Yes; As of WinCC V12
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS	1; 2 ports (switch) 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No Yes Yes Yes; As of WinCC V12 Yes
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI	1; 2 ports (switch) 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 2 No Yes Yes Yes Yes Yes Yes Yes Ye
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet)	1; 2 ports (switch) 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No Yes Yes Yes Yes; As of WinCC V12 Yes Yes Yes Yes Yes
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP	1; 2 ports (switch) 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No Yes Yes Yes Yes; As of WinCC V12 Yes Yes Yes Yes Yes Yes
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP	1; 2 ports (switch) 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 Yes Yes Yes Yes Yes Yes Yes
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP	1; 2 ports (switch) 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP	1; 2 ports (switch) 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 Yes Yes Yes Yes Yes Yes Yes

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• HTTPS • HTML • XML • XML • XML • XML • CSS • Active X • Active X • Java Script • Java VM • No Redundancy mode Media redundancy • — MRP • MRP • Yes: As of WinCC V12 Further protocols • CAN • MODBUS • CAN • MODBUS • Yes • Diagnostic information Diagnoses • Diagnostic information readable Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • No • Degree and class of protection • IP (at the front) • Enclosure Type 4 at the front
Java VM Redundancy mode Media redundancy — MRP Yes; As of WinCC V12 Further protocols • CAN • MODBUS • CAN • MODBUS Tes • Diagnoses • Diagnoses • Diagnoses • Diagnoses • Diagnoses • Diagnoses • Limit class A, for use in industrial areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • No Degroe and class of protection IP (rear) IP (rear) • Enclosure Type 4 at the front • Enclosure Type 4 at the front • Enclosure Type 4 at at the front • Enclosure Type 4 at at the front • Enclosure Type 4 at the front • Enclosure Type 4 at at the front • Enclosure Type 4 at at the front • Enclosure Type 4 at the front • Yes • CLUus • CE mark • Little Type A at the front • Ves • Little Type A at the front • Ce Cartificates • A TEX Zone 2 • FEX Zone
Pedundancy mode Media redundancy — MRP Further protocols • CAN • MODBUS • Diagnostic information readable Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas No Degree and class of protection IP (at the front) IP (ten') • Enclosure Type 4 at the front • Enclosure Type 4 x at the front • Yes • CE mark • Ves • CLULus • Yes • IECE X Zone 2 • Yes • IECE X Zone 2
Pedundancy mode Media redundancy — MRP Further protocols • CAN • MODBUS • Diagnostic information readable Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas No Degree and class of protection IP (at the front) IP (ten') • Enclosure Type 4 at the front • Enclosure Type 4 x at the front • Yes • CE mark • Ves • CLULus • Yes • IECE X Zone 2 • Yes • IECE X Zone 2
Redundancy mode Media redundancy — MRP Further protocols • CAN • MODBUS • Diagnostics/status information Diagnoses • Diagnostic information readable • Diagnostic information readable FMC Emission of radio interference acc. to EN 55 011 • Limit class B, 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 • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • No Degree and class of protection IP (ear) NEMA (front) • Enclosure Type 4 at the front • Enclosure Type 4 x at the fron
Media redundancy — MRP Yes: As of WinCC V12 Further protocols • CAN • MODBUS Interrupts/diagnostics/status information Diagnoses • Diagnostic information readable EMC Emission of radio interference acc. to EN 55 011 • Limit class B, for use in industrial areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • No Degree and class of protection IP (at the front) IP (tat the front) • Enclosure Type 4 at the front • Yes CE mark • Yes • CLILus • Yes • CLILus • Yes • ATEX Zone 2 • Yes • IECEX Zone
Further protocols CAN No MODBUS Yes Interrupts/diagnostics/status information Diagnoses Diagnosic information readable EMC EMC EIMIT Class A, for use in industrial areas Limit class A, for use in industrial areas Limit class A, for use in industrial areas Limit class A, for use in industrial areas No Degree and class of protection IP (at the front) IP (tat the front) IP (tat) Enclosure Type 4 at the front Enclosure Type 4 x at the front Enclosure Type 4 x at the front Yes Standards, approvals, certificates CE mark ULlus Yes CC mark ULlus Yes CRM (formerly C-TICK) Yes KC approval Use in hazardous areas ATEX Zone 2 ATEX Zone 2 IECEX Zone 22 Ves LICEX Zone 22 LICECX Zone 23 LICECX Zone 24 LICECX Zone 25 LICECX Zone 27 LICECX Zone 2
Further protocols CAN MODBUS Yes Interrupts/diagnostics/status information Diagnoses Diagnoses Diagnostic information readable EMC Emission of radio interference acc. to EN 55 011 Limit class A, for use in industrial areas Limit class B, for use in residential areas No Degree and class of protection IP (at the front) Enclosure Type 4 at the front Yes Standards, approvals, cortificatos CE mark CULus Yes RCM (formerly C-TICK) Yes RCM (formerly C-TICK) Yes RCM (formerly C-TICK) Yes ATEX Zone 2 ATEX Zone 2 ATEX Zone 22 EICEK Zone 2 CULus Class I Zone 1 CULUs Class I Zone 1 CULUs Class I Zone 2 FM Class I Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) American Bureau of Shipping (ABS) Polski Rejestr Statkow (PRS) Ambiont conditions
OCAN MODBUS Interrupts/diagnostics/status information Diagnoses Diagnostic information readable EMC Emission of radio interference acc. to EN 55 011 Unit class A, for use in industrial areas Unit class B, for use in residential areas Pegree and class of protection IP (at the front) IP (rear) IP (at the front) IP (rear) IP (at the front) IP (rear) IP (at the front) IP (at the front) IP (at the front) IP (rear) IP (at the front) IP (rear) IP (at the front) IP (at the front) IP (at the front) IP (rear) IP
Interrupts/diagnostics/status information Diagnoses • Limit class A, for use in industrial areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • No Degree and class of protection IP (at the front) IP (at the front) IP (at the front) IP (rear) IP (rear) IP20 NEMA (front) • Enclosure Type 4 at the front • Enclosure Type 4x at the front • Yes • Cullus • ATEX Zone 2 • ATEX Zone 2 • ATEX Zone 2 • ATEX Zone 2 • LIECEX Zone 2 • L
Interrupts/diagnostics/status information Diagnoses • Diagnostic information readable EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas No Degree and class of protection IP (at the front) IP (at the front) • Enclosure Type 4 at the front • Enclosure Type 44 at the front • Yes Standards, approvals, certificates CE mark cULus Yes RCM (formerly C-TiCK) Yes RCA groval Ves Use in hazardous areas • ATEX Zone 2 • FECEX Zone 2 • IECEX Zone 2 • IECEX Zone 2 • IECEX Zone 2 • IECEX Zone 22 • IECEX Zone 22 • FM Class I Zone 1 • CuLus Class I Zone 1 • CuLus Class I Zone 2, Division 2 • FM Class I Division 2 FM Class I Division 2 Amarine approval • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Lloyds Register of Shipping (LRS) • Nippon Kaiji kyckai (Class NK) • Polski Rejest Statkow (PRS) Ambient conditions
Diagnoses • Diagnostic information readable EMC Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas No Degree and class of protection IP (at the front) IP (at the front) • Enclosure Type 4 at the front • Yes • ATEX Zone 2 • Yes • Enclosure Type 4 at the front • Yes • Enclosure Type 4 at the front • Yes • ATEX Zone 2 • Yes • Enclosure Type 4 at the front • Yes • Enclosure Type 4 at the front • Yes • Enclosure Type 4 at the front • Yes • Enclosure Type 4 at the front • Yes • Enclosure Type 4 at the front • Yes • ATEX Zone 2 • Yes • Enclosure Type 4 at the front • Yes • ATEX Zone 2 • Yes • Enclosure Type 4 at the front • Yes • ATEX Zone 2 • Yes • Enclosure Type 4 at the front • Yes • ATEX Zone 2 • Yes • Enclosure Type 4 at the front • Yes • ATEX Zone 2 • Yes • Enclosure Type 4 at the front • Yes • ATEX Zone 2 • Yes • ATEX Zone 2 • Yes • Enclosure Type 4 at the front • Yes • ATEX Zone 2 • Yes • Enclos
Diagnostic information readable EMC Emission of radio interference acc. to EN 55 011 Limit class A, for use in industrial areas Limit class B, for use in residential areas Limit class B, for use in residential areas No Degree and class of protection IP (at the front) IP (trear) IP (rear) IP (rear) IP (rear) IP (according to the front) Enclosure Type 4 at the front Enclosure Type 4 at the front Enclosure Type 4x at the front E
Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas • Limit class B, for use in residential areas No Degree and class of protection IP (at the front) IP (rear) IP (at the front) • Enclosure Type 4 at the front • Enclosure Type 4x at the front • Yes Standards, approvals, certificates CE mark CULus • Yes CULus • Yes RCM (formerly C-TICK) • Yes RCM (formerly C-TICK) • Yes RCM (formerly C-TICK) • Yes ATEX Zone 2 • Yes • ATEX Zone 2 • Yes • IECEX Zone 22 • Yes • IECEX Zone 22 • Yes • IECEX Zone 22 • OLLUS Class I Zone 1 • No • CULus Class I Zone 2, Division 2 • PM Class I Division 2 • Yes Marine approval • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Ulcyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (Class NK) • Polski Rejestr Statkow (PRS) Amblent conditions
Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas No Degree and class of protection IP (at the front) IP (at the front) IP (art) • Enclosure Type 4 at the front
■ Limit class A, for use in industrial areas ■ Limit class B, for use in residential areas No Degree and class of protection IP (at the front) IP (tear) NEMA (front) ■ Enclosure Type 4 at the front ■ Yes Standards, approvals, certificates CE mark CULus ■ Yes CRM (formerly C-TICK) KG approval ■ Yes Use in hazardous areas ■ ATEX Zone 2 ■ ATEX Zone 2 ■ ATEX Zone 2 ■ ECCEX Zone 2 ■ ECCEX Zone 2 ■ ECCEX Zone 2 ■ ECCEX Zone 2 ■ EULus Class I Zone 1 ■ CULus Class I Zone 2 ■ FM Class I Division 2 ■ FM Class I Division 2 ■ Yes Marine approval ● Germanischer Lloyd (GL) ■ American Bureau of Shipping (ABS) ■ Bureau Veritas (BV) ■ Det Norske Veritas (DNV) ■ Det Norske Veritas (DNV) ■ Lloyds Register of Shipping (LRS) ■ Nippon Kaiji Kyokai (Class NIK) ■ Polski Rejestr Statkow (PRS) Ambient conditions
Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (tat the front) IP (rear) NEMA (front) Enclosure Type 4 at the front Yes Enclosure Type 4x at the front Yes Standards, approvals, certificates CE mark CULus Yes RCM (formerly C-TICK) Yes KC approval Ves IUse in hazardous areas ATEX Zone 2 ATEX Zone 2 IECEx Zone 2 IECEx Zone 2 CULus Class I Zone 1 CULus Class I Zone 2 FM Class I Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) Polski Rejestr Statkow (PRS) Ambient conditions
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Degree and class of protection IP (at the front) IP (rear) IP (re
IP (at the front) IP (rear) IP (rear) IP20 NEMA (front) • Enclosure Type 4 at the front • Enclosure Type 4x at the front Yes Standards, approvals, certificates CE mark CULus Yes RCM (formerly C-TICK) Yes KC approval Yes Use in hazardous areas • ATEX Zone 2 • ATEX Zone 2 • ATEX Zone 22 • IECEx Zone 22 • IECEx Zone 22 • IECEx Zone 22 • CULus Class I Zone 1 • CULus Class I Zone 1 • CULus Class I Zone 2, Division 2 • FM Class I Division 2 Marine approval • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (Class NK) • Polski Rejestr Statkow (PRS) Ambient conditions
IP (rear) NEMA (front) • Enclosure Type 4 at the front • Enclosure Type 4x at the front • Enclosure Type 4x at the front Yes Standards, approvals, certificates CE mark CULus RCM (formerly C-TICK) Yes KC approval Use in hazardous areas • ATEX Zone 2 • ATEX Zone 2 • ATEX Zone 22 • IECEx Zone 22 • IECEx Zone 22 • IECEx Zone 22 • CULus Class I Zone 1 • CULus Class I Zone 2, Division 2 • FM Class I Division 2 Marine approval • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (Class NK) • Polski Rejestr Statkow (PRS) Ambient conditions
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Enclosure Type 4x at the front Standards, approvals, certificates CE mark CULus Yes RCM (formerly C-TICK) KC approval Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • IECEX Zone 22 • IECEX Zone 22 • CULus Class I Zone 1 • CULus Class I Division 2 Marine approval • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Lloyds Register of Shipping (LRS) • No • Polski Rejestr Statkow (PRS) Ambient conditions
CE mark CULus Pes RCM (formerly C-TICK) Yes RCM (formerly C-TICK) Yes KC approval Yes Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • IECEx Zone 22 • IECEx Zone 22 • CULus Class I Zone 1 • CULus Class I Zone 1 • CULus Class I Division 2 Marine approval • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Lloyds Register of Shipping (LRS) • No Ambient conditions
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CULus RCM (formerly C-TICK) Yes KC approval Ves Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • ATEX Zone 22 • IECEx Zone 22 • IECEx Zone 22 • CULus Class I Zone 1 • CULus Class I Division 2 PMarine approval • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (Class NK) • Polski Rejestr Statkow (PRS) Ares Ares Yes Yes Yes Yes Yes Yes Ares Yes Yes Ares Yes Ares Yes Arbient Conditions
RCM (formerly C-TICK) KC approval Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • IECEx Zone 2 • IECEx Zone 2 • CULus Class I Zone 1 • CULus Class I Division 2 • FM Class I Division 2 • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Nippon Kaiji Kyokai (Class NK) • Polski Rejestr Statkow (PRS) Ameican Sureau Version: 10 Ves; As of product version: 10
KC approval Use in hazardous areas ATEX Zone 2 ATEX Zone 22 Fes EIECEx Zone 2 Fes CULus Class I Zone 1 CULus Class I Zone 2, Pes FM Class I Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) No Ambient conditions
Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • IECEx Zone 2 • IECEx Zone 2 • CULus Class I Zone 1 • CULus Class I Zone 2, Division 2 • FM Class I Division 2 Marine approval • Germanischer Lloyd (GL) • American Bureau of Shipping (ABS) • Bureau Veritas (BV) • Det Norske Veritas (DNV) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (Class NK) • Polski Rejestr Statkow (PRS) Ares Yes Yes Yes Yes Yes Yes Yes
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IECEx Zone 22 Culus Class I Zone 1 Culus Class I Zone 2, Division 2 FM Class I Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Ambient conditions
 cULus Class I Zone 2, Division 2 FM Class I Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Ambient conditions No Yes As of product version: 10 Yes; As of product version: 10 Yes; As of product version: 10 Yes; As of product version: 10 Yes; As of product version: 10 No Ambient conditions
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 FM Class I Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Yes; As of product version: 10 Yes; As of product version: 10 Yes; As of product version: 10 No Ambient conditions
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 Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Ambient conditions Yes; As of product version: 10 Yes; As of product version: 10 No
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 Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Ambient conditions Yes; As of product version: 10 No
Polski Rejestr Statkow (PRS) No Ambient conditions
Ambient conditions
Ambient temperature during operation
Operation (vertical installation)
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

	0.00
 For vertical installation, min. 	0 °C
— For vertical installation, max.	40 °C
Operation (max. tilt angle, portrait format)	
— At maximum tilt angle, min.	0 °C
— At maximum tilt angle, min.	35 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Relative humidity	·
Operation, max.	90 %; no condensation
Operating systems	
proprietary	No
pre-installed operating system	110
Windows CE	Yes
configuration / header	100
	V
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	
STEP 7 Basic (TIA Portal)	No
 STEP 7 Professional (TIA Portal) 	No
 WinCC flexible Compact 	No
 WinCC flexible Standard 	No
 WinCC flexible Advanced 	No
 WinCC Basic (TIA Portal) 	No
 WinCC Comfort (TIA Portal) 	Yes; from V11
 WinCC Advanced (TIA Portal) 	Yes; from V11
 WinCC Professional (TIA Portal) 	Yes; from V11
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	165, 110111 V 11
Languages	163, 110111 V 1 1
Languages Online languages	
Languages Online languages • Number of online/runtime languages	32
Languages Online languages ● Number of online/runtime languages Project languages	32
Languages Online languages Number of online/runtime languages Project languages Languages per project	
Languages Online languages Number of online/runtime languages Project languages Languages per project Functionality under WinCC (TIA Portal)	32
Languages Online languages Number of online/runtime languages Project languages Languages per project Functionality under WinCC (TIA Portal) Libraries	32
Languages Online languages Number of online/runtime languages Project languages Languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options	32 32 Yes
Languages Online languages Number of online/runtime languages Project languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser	32 32 Yes
Languages Online languages Number of online/runtime languages Project languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word	32 Yes Yes Yes
Languages Online languages Number of online/runtime languages Project languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel	32 32 Yes Yes Yes Yes Yes
Languages Online languages Number of online/runtime languages Project languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer	32 Yes Yes Yes
Languages Online languages Number of online/runtime languages Project languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player	32 Yes Yes Yes Yes Yes Yes Yes Ye
Languages Online languages Number of online/runtime languages Project languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer	32 Yes Yes Yes Yes Yes Yes Yes Ye
Languages Online languages Number of online/runtime languages Project languages Languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit	32 Yes Yes Yes Yes Yes Yes Yes Ye
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Languages Online languages Number of online/runtime languages Project languages Languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit	32 Yes Yes Yes Yes Yes Yes Yes Ye
Languages Online languages Number of online/runtime languages Project languages Languages per project Functionality 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	32 Yes Yes Yes Yes Yes Yes Yes Ye
Languages Online languages Number of online/runtime languages Project languages Languages per project Functionality 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	32 Yes Yes Yes Yes Yes Yes Yes Ye
Languages Online languages Number of online/runtime languages Project languages Languages per project Functionality 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	32 Yes Yes Yes Yes Yes Yes Yes Ye
Languages Online languages Number of online/runtime languages Project languages Languages per project Functionality 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	32 Yes Yes Yes Yes Yes Yes Yes Ye
Languages Online languages Number of online/runtime languages Project languages Languages per project Functionality 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 Message system	32 Yes Yes Yes Yes Yes Yes Yes Ye
Applications/options Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled Message system Number of alarm classes	32 Yes Yes Yes Yes Yes Yes Yes Ye
Applications/options Project Excel Pocket Excel Pocket Excel Pocket Excel Pocket Excel SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled Message system Number of alarm classes Bit messages	32 Yes Yes Yes Yes Yes Yes Yes Ye
Online languages Number of online/runtime languages Project languages Languages per project Functionality 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 Message system Number of alarm classes Bit messages — Number of bit messages	32 Yes Yes Yes Yes Yes Yes Yes Ye
Online languages Number of online/runtime languages Project languages Languages per project Functionality 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 Message system Number of alarm classes Bit messages Number of bit messages Analog messages	32 Yes Yes Yes Yes Yes Yes Yes Ye
Online languages Number of online/runtime languages Project languages Languages per project Functionality 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 task-controlled Message system Number of alarm classes Bit messages Number of bit messages Analog messages Analog messages Number of analog messages S7 alarm number procedure	32 Yes Yes Yes Yes Yes Yes Yes Ye
Online languages Number of online/runtime languages Project languages Languages per project Functionality 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 task-controlled Message system Number of alarm classes Bit messages Number of bit messages Analog messages Number of analog messages	32 Yes Yes Yes Yes Yes Yes Yes Ye

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	1 000
 Size of internal recipe memory 	2 Mbyte
 Recipe memory expandable 	Yes
/ariables	
 Number of variables per device 	2 048
 Number of variables per screen 	400
Limit values	Yes
Multiplexing	Yes
Structures	Yes
Arrays	Yes
mages	
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
mage objects	
Number of objects per image	400
Text fields	Yes
• I/O fields	Yes
Graphic I/O fields (graphics list)	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	
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
	Yes
IP camera display Bar graphs	Yes
Bar graphs	
- Clidoro	Yes
Sliders Painter instruments	Voc
SlidersPointer instrumentsAnalog/digital clock	Yes Yes

 Number of entries per text list 	500
Number of graphics lists per project	500
Number of graphics lists per project Number of entries per graphics list	500
Archiving	300
Number of archives per device	50
Number of entries per archive	20 000
Message archive	Yes
Process value archive	Yes
Archiving methods	
Sequential archive	Yes
— Short-term archive	Yes
Memory location	
— Memory card	Yes
— USB memory	Yes
— Ethernet	Yes
Data storage format	- 33
— CSV	Yes
— TXT	Yes
— RDB	Yes
Security	1.00
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
	100
• S7-300/400	Yes
• S7-300/400 • LOGO!	
	Yes
• LOGO!	Yes Yes Yes
LOGO!WinAC	Yes Yes
LOGO!WinACSINUMERIK	Yes Yes Yes Yes; with SINUMERIK option package
LOGO!WinACSINUMERIKSIMOTION	Yes Yes Yes Yes; with SINUMERIK option package Yes
LOGO!WinACSINUMERIKSIMOTIONAllen Bradley (EtherNet/IP)	Yes Yes Yes Yes; with SINUMERIK option package Yes Yes
 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) 	Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes
 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) 	Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes
 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) 	Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes
 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) 	Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) 	Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes No
 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) 	Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes
 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) 	Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye

 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)	
Plastic	No
 Aluminum 	Yes
Stainless steel	No
Dimensions	
Width of the housing front	454 mm
Height of housing front	289 mm
Mounting cutout, width	434 mm
Mounting cutout, height	269 mm
Overall depth	65 mm
Weights	
Weight (without packaging)	4.4 kg
Weight (with packaging)	5.7 kg

3/2/2021

last modified: