Data sheet



SIMATIC S7-1200, CPU 1214C, compact CPU, DC/DC/DC, onboard I/O: 14 DI 24 V DC; 10 DO 24 V DC; 2 AI 0-10 V DC, power supply: DC 20.4-28.8 V DC, program/data memory 150 KB

Figure similar

Product type designation CPU 1214C DC/DC/DC Firmware version V4.6 Engineering with Programming package STEP 7 V18 or higher Supply voltage Rated value (DC) 24 V DC Permissible range, lower limit (DC) 20.4 V
Engineering with • Programming package Supply voltage Rated value (DC) • 24 V DC Yes
 ◆ Programming package Supply voltage Rated value (DC) ◆ 24 V DC Yes
Supply voltage Rated value (DC) • 24 V DC Yes
Rated value (DC) • 24 V DC Yes
• 24 V DC Yes
permissible range, lower limit (DC) 20.4 V
permissible range, upper limit (DC) 28.8 V
Reverse polarity protection Yes
Load voltage L+
Rated value (DC) 24 V
• permissible range, lower limit (DC) 20.4 V
• permissible range, upper limit (DC) 28.8 V
Input current
Current consumption (rated value) 500 mA; CPU only
Current consumption, max. 1 500 mA; CPU with all expansion modules
Inrush current, max. 12 A; at 28.8 V
l²t 0.5 A²·s
Output current
for backplane bus (5 V DC), max. 1 600 mA; Max. 5 V DC for SM and CM
Encoder supply
24 V encoder supply
• 24 V L+ minus 4 V DC min.
Power loss
Power loss, typ. 12 W
Memory
Work memory
• integrated 150 kbyte
Load memory
• integrated 4 Mbyte
Plug-in (SIMATIC Memory Card), max. with SIMATIC memory card
Backup
• present Yes
• maintenance-free Yes
without battery Yes
CPU processing times
for bit operations, typ. 0.08 µs; / instruction

for word appretians, type	1.7 up: / instruction	
for word operations, typ.	1.7 μs; / instruction	
for floating point arithmetic, typ.	2.3 µs; / instruction	
CPU-blocks		
Number of blocks (total)	DBs, FCs, FBs, counters and timers. The maximum number of addressable blocks ranges from 1 to 65535. There is no restriction, the entire working memory can be used	
OB		
Number, max.	Limited only by RAM for code	
Data areas and their retentivity		
Retentive data area (incl. timers, counters, flags), max.	14 kbyte	
Flag		
• Size, max.	8 kbyte; Size of bit memory address area	
Local data		
per priority class, max.	16 kbyte; Priority class 1 (program cycle): 16 KB, priority class 2 to 26: 6 KB	
Address area		
Process image		
Inputs, adjustable	1 kbyte	
Outputs, adjustable	1 kbyte	
Hardware configuration		
Number of modules per system, max.	3 comm. modules, 1 signal board, 8 signal modules	
Time of day	5 comm. modulos, 1 signal board, 6 signal modules	
Clock		
	Voo	
Hardware clock (real-time) Reality time	Yes	
Backup time Deviation per day, may	480 h; Typical ±60 s/month at 25 °C	
Deviation per day, max. Digital inputs	±00 \$/III0IItii at 25 °C	
Digital inputs		
Number of digital inputs	14; Integrated	
of which inputs usable for technological functions	6; HSC (High Speed Counting)	
Source/sink input	Yes	
Number of simultaneously controllable inputs		
all mounting positions		
— up to 40 °C, max.	14	
Input voltage		
Rated value (DC)	24 V	
• for signal "0"	5 V DC at 1 mA	
• for signal "1"	15 V DC at 2.5 mA	
Input delay (for rated value of input voltage)		
for standard inputs		
— parameterizable	0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four	
— at "0" to "1", min.	0.2 ms	
— at 0 to 1, min. — at "0" to "1". max.	12.8 ms	
·	12.0 1115	
for interrupt inputs	Voc	
— parameterizable	Yes	
for technological functions	Single phase: 3 @ 100 kHz 9 2 @ 20 kHz differential: 2 @ 90 kHz 9 2 @ 20	
— parameterizable	Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3 @ 30 kHz	
Cable length		
shielded, max.	500 m; 50 m for technological functions	
• unshielded, max.	300 m; for technological functions: No	
Digital outputs		
Number of digital outputs	10	
of which high-speed outputs	4; 100 kHz Pulse Train Output	
Limitation of inductive shutdown voltage to	L+ (-48 V)	
Switching capacity of the outputs	_ (,)	
with resistive load, max.	0.5 A	
on lamp load, max.	5 W	
Output voltage	0.1 V: with 10 kOhm load	
for signal "0", max.	0.1 V; with 10 kOhm load	
• for signal "1", min.	20 V	

• for signal **I* rated value*		
Count delay with resistive load		0.5 A
• "1" to "1" max.	for signal "0" residual current, max.	0.1 mA
• "I' to "O", max. * Sunctions of gray outputs. • of the pulse outputs, with resistive load, max. * Number of relay outputs • Sheleford, max. • unshelded, max. • unshelded, max. • To "Ordage Number of analog inputs	Output delay with resistive load	
Sententing Requency of the pube outputs, with resistive load, max Relay subtate Number of rotary outputs O Cable length o shaleted, max. So 00 m o shaleted, max. ISD m Analog inputs Puber of analog reputs o to +10 V Input ranges (rated values), voltages o to +10 V Input ranges (rated values), voltages o to +10 V Input ranges (rated values), voltages o to +10 V Input ranges (rated values), voltages o to +10 V Input ranges (rated values), voltages o to +10 V Input ranges (rated values), voltages o to +10 V Input ranges (rated values), voltages o to +10 V Input ranges (rated values), voltages o to +10 V Input ranges (rated values), voltages o to +10 V Input ranges (rated values), voltages o to +10 V Input ranges (rated values), voltages o to +10 V Input ranges (rated values), voltages o to +10 V Input ranges (rated values), voltages o to +10 V Yes o shaleted, max. Into fine or the input range (rit including aign), max. o to the input range (rit including aign), max. o to the input range (rit including aign), max. o to the input range (rit including aign), max. o to the input range (rit including aign), max. o to the input range (rit including aign), max. o to the input range (rit including aign), max. o to both o range range (rated values), voltages o	• "0" to "1", max.	1 µs
e of the pulse outputs, with resistive load, max. Number of refety outputs Number of refety outputs Number of refety outputs Number of refety outputs Number of maked, max. So 00 m So 00	• "1" to "0", max.	5 μs
Relay supuls Number of retry outputs Number of retry outputs Number of ranks Number of	Switching frequency	
A lumber of relay outputs	of the pulse outputs, with resistive load, max.	100 kHz
A lumber of relay outputs	Relay outputs	
Cable length • shielded, max. • unshielded, max. • unshielded, max. • unshielded, max. • unshielded, max. Number of analog inputs • Vottage vottage Yes	·	0
* shielded, max.		
- unshielded, max Number of analog inputs - Votage - Votage - Ves - Input resistance (0 to 10 V) - Zobic length - whelded, max - Votage - white length - whelded, max - Votage - Votage - Votage - Votage - Votage - Votage - Ves		500 m
Number of analog inputs 2 1 1 1 1 1 1 1 1 1		
Number of analog inputs Input ranges Yes		130 111
Input ranges • Voltage • Voltage • Oto +10 V Yes Input ranges (rated values), voltages • Oto +10 V Yes — Input resistance (0 to 10 V) Cable length • shelded, max — Analog outputs Number of analog outputs Number of analog outputs Number of analog outputs Analog value glueration for the inputs Inlegation and conversion time/resolution per channel • Resolution with overrange (thi including sign), max. • Inlegation and conversion time/resolution per channel • Resolution with overrange (thi including sign), max. • Conversion time (per channel) • Conversion time (per channel) • Connectable encoders • 2-wire sensor • 2-wire sensor • 1 Interface Interface type Interface type Ves Julianterface Interface type Autonogotiation Yes Autonogotiation Yes Autonogotiation Yes Autonogotiation Yes Autonogotiation Yes FROFINET (I) Controller • PROFINET (I) Controller • Transmission rate, max. 100 Mbl/s Senices • PROFINET (I) Controller • Transmission rate, max. 100 Mbl/s Senices • PROFINET (I) Controller • Transmission rate, max. 100 Mbl/s Senices • PROFINET (I) Controller • Transmission rate, max. 100 Mbl/s Senices • PROFINET (I) Controller • Transmission rate, max. 100 Mbl/s • PROFINET (I) Controller • Transmission rate, max. 100 Mbl/s • PROFINET (I) Controller • Transmission rate, max. 100 Mbl/s • PROFINET (I) Controller • Transmission rate, max. 100 Mbl/s • PROFINET (I) Controller • Transmission rate, max. 100 Mbl/s • PROFINET (I) Controller • Transmission rate, max. 100 Mbl/s • PROFINET (I) Controller • Transmission rate, max. 100 Mbl/s • PROFINET (I) Controller • Transmission rate, max. 100 Mbl/s • PROFINET (I) Controller • Transmission rate, max. 100 Mbl/s • PROFINET (I) Controller		2
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Input ranges (rated values), voltages • 0 to +10 V Yes — Input resistance (0 to 10 V) ≥ ±100k ohms Cable length • shielded, max. Analog outputs Number of analog outputs Number of analog outputs Resolution with overrange (bit including sign), max. Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. Integration inter, parameterizable • Conversion time (per channel) • Conversion time (per channel) • Conversion time (per channel) • Yes • Conversion time (per channel) • Yes • Conversion time (per channel) • Yes • Linterface Interface type		V
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- Input resistance (0 to 10 V) Cable length		.,
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• Integration time, parameterizable	 Resolution with overrange (bit including sign), max. 	10 bit
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● Transmission rate, max. Services — PG/OP communication — Isochronous mode — IRT — PROFlenergy — Prioritized startup — Number of IO devices with prioritized startup, max. — Number of connectable IO Devices, max. — Number of connectable IO Devices for RT, max. 100 Mbit/s Yes; encryption with TLS V1.3 pre-selected No No No 16 16	Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server	PROFINET Yes Yes Yes Yes Yes Yes 1 No Yes Yes Yes Yes Yes Yes Yes Ye
Services - PG/OP communication - Isochronous mode - IRT - PROFlenergy - Prioritized startup - Number of IO devices with prioritized startup, max Number of connectable IO Devices, max Number of connectable IO Devices for RT, max. 16	Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy	PROFINET Yes Yes Yes Yes Yes Yes 1 No Yes Yes Yes Yes Yes Yes Yes Ye
 — PG/OP communication — Isochronous mode — IRT — PROFlenergy — Prioritized startup — Number of IO devices with prioritized startup, max. — Number of connectable IO Devices, max. — Number of connectable IO Devices for RT, max. 16 	Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy PROFINET IO Controller	PROFINET Yes Yes Yes Yes Yes Yes Yes Yes Ye
 — Isochronous mode — IRT — PROFlenergy — Prioritized startup — Number of IO devices with prioritized startup, max. — Number of connectable IO Devices, max. — Number of connectable IO Devices for RT, max. 16 	Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy PROFINET IO Controller • Transmission rate, max.	PROFINET Yes Yes Yes Yes Yes Yes Yes Yes Ye
 — IRT — PROFlenergy — Prioritized startup — Number of IO devices with prioritized startup, max. — Number of connectable IO Devices, max. — Number of connectable IO Devices for RT, max. 16 	Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy PROFINET IO Controller • Transmission rate, max. Services	PROFINET Yes Yes Yes Yes Yes 1 No Yes Yes Yes Yes No Mbit/s
 — PROFlenergy — Prioritized startup — Number of IO devices with prioritized startup, max. — Number of connectable IO Devices, max. — Number of connectable IO Devices for RT, max. 16 	Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy PROFINET IO Controller • Transmission rate, max. Services — PG/OP communication	PROFINET Yes Yes Yes Yes Yes Yes Yes 1 No Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
 — Prioritized startup — Number of IO devices with prioritized startup, max. — Number of connectable IO Devices, max. — Number of connectable IO Devices for RT, max. 16 — Number of connectable IO Devices for RT, max. 16 	Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy PROFINET IO Controller • Transmission rate, max. Services — PG/OP communication — Isochronous mode	PROFINET Yes Yes Yes Yes Yes Yes Yes 1 No Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
 Number of IO devices with prioritized startup, max. Number of connectable IO Devices, max. Number of connectable IO Devices for RT, max. 	Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy PROFINET IO Controller • Transmission rate, max. Services — PG/OP communication — Isochronous mode — IRT	PROFINET Yes Yes Yes Yes Yes Yes Yes Yes 1 No Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
 Number of connectable IO Devices, max. Number of connectable IO Devices for RT, max. 16 	Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy PROFINET IO Controller • Transmission rate, max. Services — PG/OP communication — Isochronous mode — IRT — PROFIenergy	PROFINET Yes Yes Yes Yes Yes Yes 1 No Yes Yes Yes Yes Yes Yes Yes Yes; Optionally also encrypted Yes No 100 Mbit/s Yes; encryption with TLS V1.3 pre-selected No No
— Number of connectable IO Devices for RT, max.	Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy PROFINET IO Controller • Transmission rate, max. Services — PG/OP communication — Isochronous mode — IRT — PROFIenergy — Prioritized startup	PROFINET Yes Yes Yes Yes Yes Yes Yes Yes Ye
	Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy PROFINET IO Controller • Transmission rate, max. Services — PG/OP communication — Isochronous mode — IRT — PROFIenergy — Prioritized startup — Number of IO devices with prioritized startup, max.	PROFINET Yes Yes Yes Yes Yes Yes Yes Yes Ye
— of which in line, max.	Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy PROFINET IO Controller • Transmission rate, max. Services — PG/OP communication — Isochronous mode — IRT — PROFlenergy — Prioritized startup — Number of IO devices with prioritized startup, max. — Number of connectable IO Devices, max.	PROFINET Yes Yes Yes Yes Yes Yes Yes Yes Ye
	Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Interface types RJ 45 (Ethernet) Number of ports integrated switch Protocols PROFINET IO Controller PROFINET IO Device SIMATIC communication Open IE communication Web server Media redundancy PROFINET IO Controller Transmission rate, max. Services PG/OP communication Isochronous mode IRT PROFIenergy Prioritized startup Number of IO devices with prioritized startup, max. Number of connectable IO Devices, max.	PROFINET Yes Yes Yes Yes Yes Yes Yes 1 No Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye

 Activation/deactivation of IO Devices 	Vac		
	Yes		
 Number of IO Devices that can be simultaneously activated/deactivated, max. 	8		
— Updating time	The minimum value of the update time also depends on the communication component set for PROFINET IO, on the number of IO devices and the quantity		
PROFINET IO Device	of configured user data.		
Services			
— PG/OP communication	Yes; encryption with TLS V1.3 pre-selected		
— Isochronous mode	No		
— ISOCITIONOUS Mode — IRT	No		
— PROFlenergy	Yes		
— Shared device	Yes		
Number of IO Controllers with shared device, max.	2		
Protocols	V.		
Supports protocol for PROFINET IO	Yes		
PROFIsafe	No		
PROFIBUS	Yes; CM 1243-5 (master) or CM 1242-5 (slave) required		
OPC UA	Yes; OPC UA Server		
AS-Interface	Yes; CM 1243-2 required		
Protocols (Ethernet)			
• TCP/IP	Yes		
• DHCP	No		
• SNMP	Yes		
• DCP	Yes		
• LLDP	Yes		
Redundancy mode			
Media redundancy			
— MRP	No		
— MRPD	No		
SIMATIC communication			
S7 routing	Yes		
Open IE communication			
• TCP/IP	Yes		
— Data length, max.	8 kbyte		
• ISO-on-TCP (RFC1006)	Yes		
— Data length, max.	8 kbyte		
• UDP	Yes		
— Data length, max.	1 472 byte		
Web server	1 +12 byte		
• supported	Yes		
User-defined websites	Yes		
OPC UA	100		
	Yes; "Basic" license required		
Runtime license required OPC UA Server	· · · · · · · · · · · · · · · · · · ·		
OPC DA Server Application authentication	Yes; data access (read, write, subscribe), method call, runtime license required Available security policies: None, Basic128Rsa15, Basic256Rsa15, Basic256Sha256		
User authentication	"anonymous" or by user name & password		
Number of sessions, max.	10		
Number of sessions, max. Number of subscriptions per session, max.	5		
— Number of subscriptions per session, max. — Sampling interval, min.	100 ms		
— Sampling Interval, min. — Publishing interval, min.	200 ms		
— Publishing interval, min. — Number of server methods, max.	20 1115		
Number of server methods, max. Number of monitored items, recommended max.	1 000		
Number of server interfaces, max.	2		
 Number of nodes for user-defined server interfaces, max. 	2 000		
Further protocols			
MODBUS	Yes		
communication functions / header	1.00		
S7 communication	Von		
supported	Yes		

• as server	Yes		
• as client	Yes		
User data per job, max.	See online help (S7 communication, user data size)		
Number of connections			
• overall	PG Connections: 4 reserved / 4 max; HMI Connections: 12 reserved / 18 max; S7 Connections: 8 reserved / 14 max; Open User Connections: 8 reserved / 14 max; Web Connections: 2 reserved / 30 max; OPC UA Connections: 0 reserved / 10 max; Total Connections: 34 reserved / 64 max		
Test commissioning functions			
Status/control			
Status/control variable	Yes		
 Variables 	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters		
Forcing			
Forcing	Yes		
Diagnostic buffer			
• present	Yes		
Traces			
 Number of configurable Traces 	2		
Memory size per trace, max.	512 kbyte		
Interrupts/diagnostics/status information			
Diagnostics indication LED			
• RUN/STOP LED	Yes		
• ERROR LED	Yes		
MAINT LED	Yes		
Integrated Functions			
Counter			
Number of counters	6		
Counting frequency, max.	100 kHz		
Frequency measurement	Yes		
controlled positioning	Yes		
Number of position-controlled positioning axes, max.	8		
Number of positioning axes via pulse-direction interface	4; With integrated outputs		
PID controller	Yes		
Number of alarm inputs	4		
Number of pulse outputs	4		
Limit frequency (pulse)	100 kHz		
Potential separation			
Potential separation digital inputs			
Potential separation digital inputs	No		
between the channels, in groups of	1		
Potential separation digital outputs			
Potential separation digital outputs	Yes		
between the channels	No		
between the channels, in groups of	1		
EMC			
Interference immunity against discharge of static electricity			
Interference immunity against discharge of static electricity acc. to IEC 61000-4-2	Yes		
Test voltage at air discharge	8 kV		
Test voltage at contact discharge	6 kV		
Interference immunity to cable-borne interference			
• Interference immunity on supply lines acc. to IEC 61000-4-4	Yes		
• Interference immunity on signal cables acc. to IEC 61000-4-4	Yes		
Interference immunity against voltage surge			
• Interference immunity on supply lines acc. to IEC 61000-4-5	Yes		
Interference immunity against conducted variable disturbance indu	ced by high-frequency fields		
 Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 	Yes		
E 1 1 6 11 1 1 6 1 1 1 1 1 1 1 1 1 1 1 1			
Emission of radio interference acc. to EN 55 011			

• Limit class B, for use in residential areas	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011	
Degree and class of protection	for Class B according to EN 55011	
IP degree of protection	IP20	
Standards, approvals, certificates	11 20	
CE mark	Yes	
UL approval	Yes	
cULus	Yes	
FM approval	Yes	
RCM (formerly C-TICK)	Yes	
KC approval	Yes	
Marine approval	Yes	
Ambient conditions		
Free fall		
• Fall height, max.	0.3 m; five times, in product package	
Ambient temperature during operation	ore m, me unes, m product publicage	
• min.	-20 °C	
• max.	60 °C; Number of simultaneously activated inputs or outputs 7 or 5 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 14 or 10 at 55 °C horizontal or 45 °C vertical	
 horizontal installation, min. 	-20 °C	
 horizontal installation, max. 	60 °C	
 vertical installation, min. 	-20 °C	
vertical installation, max.	50 °C	
Ambient temperature during storage/transportation		
• min.	-40 °C	
• max.	70 °C	
Air pressure acc. to IEC 60068-2-13		
Operation, min.	795 hPa	
 Operation, max. 	1 080 hPa	
 Storage/transport, min. 	660 hPa	
Storage/transport, max.	1 080 hPa	
Altitude during operation relating to sea level		
Installation altitude, min.	-1 000 m	
Installation altitude, max.	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual	
Relative humidity		
Operation, max.	95 %; no condensation	
Vibrations		
Vibration resistance during operation acc. to IEC 60068- 2-6	2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail	
Operation, tested according to IEC 60068-2-6 Charle testing	Yes	
Shock testing	V	
tested according to IEC 60068-2-27 Pollutant concentrations	Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms	
SO2 at RH < 60% without condensation	S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free	
configuration / header	COL. O.O ppin, 1120. Co. 1 ppin, 141 Coo76 condensation-free	
configuration / programming / header		
Programming language		
— LAD	Yes	
— FBD	Yes	
— SCL	Yes	
Know-how protection		
	Yes	
·	• • •	
User program protection/password protection	Yes	
User program protection/password protection Copy protection	Yes Yes	
 User program protection/password protection Copy protection Block protection 	Yes Yes	
User program protection/password protection Copy protection Block protection Access protection	Yes	
User program protection/password protection Copy protection Block protection Access protection protection of confidential configuration data	Yes	
User program protection/password protection Copy protection Block protection Access protection protection of confidential configuration data Protection level: Write protection	Yes Yes Yes	
User program protection/password protection Copy protection Block protection Access protection protection of confidential configuration data	Yes	

 adjustable 	Yes	
Dimensions		
Width	110 mm	
Height Depth	100 mm	
Depth	75 mm	
Weights		
Weight, approx.	415 g	

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