SIEMENS

Data sheet

6ES7212-1BE40-0XB0

SIMATIC S7-1200, CPU 1212C, compact CPU, AC/DC/relay, onboard I/O: 8 DI 24 V DC; 6 DO relay 2 A; 2 AI 0-10 V DC, Power supply: AC 85-264 V AC at 47-63 Hz, Program/data memory 75 KB



General information	
Product type designation	CPU 1212C AC/DC/relay
Firmware version	V4.4
Engineering with	
 Programming package 	STEP 7 V16 or higher
Supply voltage	
Rated value (AC)	
• 120 V AC	Yes
• 230 V AC	Yes
permissible range, lower limit (AC)	85 V
permissible range, upper limit (AC)	264 V
Line frequency	
 permissible range, lower limit 	47 Hz
• permissible range, upper limit	63 Hz
Input current	
Current consumption (rated value)	80 mA at 120 V AC; 40 mA at 240 V AC
Current consumption, max.	240 mA at 120 V AC; 120 mA at 240 V AC
Inrush current, max.	20 A; at 264 V

l²t	0.8 A ² ·s
Output current	
for backplane bus (5 V DC), max.	1 000 mA; Max. 5 V DC for SM and CM
Encoder overla	
Encoder supply 24 V encoder supply	
• 24 V	20.4 to 28.8V
• 24 V	20.4 10 20.0 V
Power loss	
Power loss, typ.	11 W
Memory	
Work memory	
● integrated	75 kbyte
• expandable	No
Load memory	
● integrated	2 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 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
0.5	restriction, the entire working memory can be used
OB	Limited only by DAM for code
• Number, max.	Limited only by RAM for code
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags),	10 kbyte
max.	
Flag	
• Number, max.	4 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, 2 signal modules
Time of day	
Clock	
 Hardware clock (real-time) 	Yes
Backup time	480 h; Typical
 Deviation per day, max. 	±60 s/month at 25 °C
Digital inputs	
Number of digital inputs	8; Integrated
 of which inputs usable for technological 	6; HSC (High Speed Counting)
functions	
Source/sink input	Yes
Number of simultaneously controllable inputs	
all mounting positions	
— up to 40 °C, max.	8
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", max.	12.8 ms
for interrupt inputs	
— parameterizable	Yes
for technological functions	
— 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	6; Relays
Switching capacity of the outputs	
• with resistive load, max.	2 A
• on lamp load, max.	30 W with DC, 200 W with AC
Output delay with resistive load	
• "0" to "1", max.	10 ms; max.

● "1" to "0", max.	10 ms; max.
Relay outputs	
Number of relay outputs	6
Number of operating cycles, max.	mechanically 10 million, at rated load voltage 100 000
Cable length	······································
• shielded, max.	500 m
• unshielded, max.	150 m
Analog inputs	
Number of analog inputs	2
Input ranges	
Voltage	Yes
Input ranges (rated values), voltages	
• 0 to +10 V	Yes
— Input resistance (0 to 10 V)	≥100k ohms
Cable length	
 shielded, max. 	100 m; twisted and shielded
Analog outputs Number of analog outputs	0
	0
Analog value generation for the inputs Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), 	10 bit
max.	
 Integration time, parameterizable 	Yes
 Conversion time (per channel) 	625 µs
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
1. Interface	
Interface type	PROFINET
Isolated	Yes
automatic detection of transmission rate	Yes
Autonegotiation	Yes
Autocrossing	Yes
Interface types	
• RJ 45 (Ethernet)	Yes
Number of ports	1
integrated switch	No
Protocols	
PROFINET IO Controller	Yes
 PROFINET IO Device 	Yes

 SIMATIC communication 	Yes
Open IE communication	Yes; Optionally also encrypted
Web server	Yes
Media redundancy	No
PROFINET IO Controller	
 Transmission rate, max. 	100 Mbit/s
Services	
— PG/OP communication	Yes
— S7 routing	Yes
— Isochronous mode	No
— IRT	No
— MRP	No
— MRPD	No
— PROFlenergy	No
— Prioritized startup	Yes
- Number of IO devices with prioritized	16
startup, max.	
 — Number of connectable IO Devices, max. 	16
 — Number of connectable IO Devices for RT, 	16
max.	
— of which in line, max.	16
 Activation/deactivation of IO Devices 	Yes
— Number of IO Devices that can be	8
simultaneously activated/deactivated, max.	The minimum value of the undete time also depende on the
— 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 of configured user data.
PROFINET IO Device	
Services	
— PG/OP communication	Yes
— S7 routing	Yes
— Isochronous mode	No
— IRT	No
— MRP	No
— MRPD	No
DDOFlogeray	Voc

PROFlenergy Yes
 Shared device Yes
 Number of IO Controllers with shared device, max.

Protocols	
Supports protocol for PROFINET IO	Yes
PROFIBUS	Yes; CM 1243-5 (master) or CM 1242-5 (slave) required



AS-Interface	Yes; CM 1243-2 required
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	No
• SNMP	Yes
• DCP	Yes
• LLDP	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	
supported	Yes
 User-defined websites 	Yes
OPC UA	
 Runtime license required 	Yes; "Basic" license required
OPC UA Server	Yes; Data access (read, write, subscribe), runtime license required
— Application authentication	Available security policies: None, Basic128Rsa15, Basic256Rsa15, Basic256Sha256
— User authentication	"anonymous" or by user name & password
— Number of sessions, max.	5
- Number of accessible variables, max.	1 000
 — Number of subscriptions per session, max. 	5
— Sampling interval, min.	100 ms
— Publishing interval, min.	200 ms
— Number of monitored items, max.	500
— Number of server interfaces, max.	2
 — Number of nodes for user-defined server interfaces, max. 	1 000
Further protocols	
MODBUS	Yes
Communication functions S7 communication	
	Yes
supported	Yes
• as server	Yes
as client	See online help (S7 communication, user data size)
User data per job, max. Number of connections	

8 connections for open user communication (active or passive): TSEND_C, TRCV_C, TCON, TDISCON, TSEND and TRCV, 8 CPU/CPU connections (Client or Server) for GET/PUT data, 6 connections for dynamic assignment to GET/PUT or open user communication

est 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
nterrupts/diagnostics/status information	
Diagnostics indication LED	
RUN/STOP LED	Yes
• ERROR LED	Yes
• MAINT LED	Yes
ntegrated Functions	
Number of counters	6
Counting frequency (counter) 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	Up to 4 with SB 1222
PID controller	Yes
Number of alarm inputs	4
Potential separation	
Potential separation digital inputs	
 Potential separation digital inputs 	500V AC for 1 minute
 between the channels, in groups of 	1
Potential separation digital outputs	
 Potential separation digital outputs 	Relays
 between the channels 	No
• between the channels, in groups of	2
MC	

Interference immunity against discharge of static electri	city
 Interference immunity against discharge of 	Yes
static electricity acc. to IEC 61000-4-2	
— 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 distur	bance induced by high-frequency fields
 Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 	Yes
Emission of radio interference acc. to EN 55 011	
• Limit class A, for use in industrial areas	Yes; Group 1
 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	
IP degree of protection	IP20
Standards, approvals, certificates	
Standards, approvals, certificates CE mark	Yes
	Yes Yes
CE mark	
CE mark UL approval	Yes
CE mark UL approval cULus	Yes Yes
CE mark UL approval cULus FM approval	Yes Yes
CE mark UL approval cULus FM approval RCM (formerly C-TICK)	Yes Yes Yes
CE mark UL approval cULus FM approval RCM (formerly C-TICK) KC approval Marine approval	Yes Yes Yes Yes
CE mark UL approval cULus FM approval RCM (formerly C-TICK) KC approval	Yes Yes Yes Yes
CE mark UL approval cULus FM approval RCM (formerly C-TICK) KC approval Marine approval Ambient conditions	Yes Yes Yes Yes
CE mark UL approval cULus FM approval RCM (formerly C-TICK) KC approval Marine approval Ambient conditions Free fall	Yes Yes Yes Yes Yes
CE mark UL approval cULus FM approval RCM (formerly C-TICK) KC approval Marine approval Ambient conditions Free fall • Fall height, max.	Yes Yes Yes Yes Yes
CE mark UL approval cULus FM approval RCM (formerly C-TICK) KC approval Marine approval Ambient conditions Free fall • Fall height, max. Ambient temperature during operation • min.	Yes Yes Yes Yes Yes Yes O.3 m; five times, in product package
CE mark UL approval cULus FM approval RCM (formerly C-TICK) KC approval Marine approval Ambient conditions Free fall • Fall height, max. Ambient temperature during operation	Yes Yes Yes Yes Yes O.3 m; five times, in product package
CE mark UL approval cULus FM approval RCM (formerly C-TICK) KC approval Marine approval Ambient conditions Free fall • Fall height, max. Ambient temperature during operation • min.	Yes Yes Yes Yes Yes Yes O.3 m; five times, in product package -20 °C 60 °C; Number of simultaneously activated inputs or outputs 4 or 3 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 8 or 6
CE mark UL approval cULus FM approval RCM (formerly C-TICK) KC approval Marine approval Ambient conditions Free fall • Fall height, max. Ambient temperature during operation • min. • max.	Yes Yes Yes Yes Yes Yes O.3 m; five times, in product package -20 °C 60 °C; Number of simultaneously activated inputs or outputs 4 or 3 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 8 or 6 at 55 °C horizontal or 45 °C vertical
CE mark UL approval CULus FM approval RCM (formerly C-TICK) KC approval Marine approval Ambient conditions Free fall • Fall height, max. Ambient temperature during operation • min. • max. • horizontal installation, min.	Yes Yes Yes Yes Yes Yes O.3 m; five times, in product package -20 °C 60 °C; Number of simultaneously activated inputs or outputs 4 or 3 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 8 or 6 at 55 °C horizontal or 45 °C vertical -20 °C
CE mark UL approval CULus FM approval RCM (formerly C-TICK) KC approval Marine approval Ambient conditions Free fall • Fall height, max. Ambient temperature during operation • min. • max. • horizontal installation, min. • horizontal installation, max.	Yes Yes Yes Yes Yes Yes Yes O.3 m; five times, in product package -20 °C 60 °C; Number of simultaneously activated inputs or outputs 4 or 3 (no adjacent points) at 60 °C horizontal or 50 °C vertical, 8 or 6 at 55 °C horizontal or 45 °C vertical -20 °C 60 °C

• min. 40 ° C • max. 70 ° C Air pressure acc. to IEC 60068-2-13 70 ° C • Operation, min. 795 hPa • Operation, max. 1080 hPa • Storage/transport, max. 1080 hPa • Storage/transport, max. 1080 hPa • Installation altitude, min. -1 000 m • Installation altitude, max. 2 000 m Relative humidity - • Operation, max. 95 %; no condensation Vibrations - • Operation, tested according to IEC 60068-2-6 Yes • Operation, tested according to IEC 60068-2-7 Yes • Stock testing - • tested according to IEC 60068-2-27 Yes: IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms Polutant concentrations Stock testing • tested according to IEC 60068-2-27 Yes: IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms Polutant concentrations Sto2 at RH < 60% without condensation • SD2 at RH < 60% without condensation Sto2 = 0.1 ppm; RH < 60% condensation-free Configuration Yes Protection Yes • FR	Ambient temperature during storage/transportation	
Air pressure acc. to IEC 60068-2-13 • Operation, min. 795 hPa • Operation, max. 1 080 hPa • Storage/transport, max. 1 080 hPa • Storage/transport, max. 1 100 n • Installation altitude, min. 1 000 m • Installation altitude, max. 2 000 m Relative humidity - • Operation, max. 95 %; no condensation Vibrations 2 g (m/s ⁺) wall mounting, 1 g (m/s ⁺) DIN rail IEC 6008-2-6 Yes • Operation, tested according to IEC 60088-2-6 Yes Shock testing - • tested according to IEC 60088-2-7 Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms Pollulant concentrations Sto2: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free		-40 °C
 Operation, min. Operation, max. Operation, max. Storage/transport, min. G60 hPa Storage/transport, max. 1000 hPa Altitude during operation relating to sea level Installation altitude, min. Installation altitude, max. 2000 m Relative humidity Operation, max. 95 %; no condensation Vibrations Vibrations Vibrations operation (acc. to EC 60068-2-6 Operation, tested according to EC 60068-2-6 Yes Shock testing tested according to EC 60068-2-7 Ves; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms Pollutant concentrations SO2 at RH < 60% without condensation SO2: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free Configuration FBD FBD SO2 at RH < 60% induct condensation SO2: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free Configuration Ves Frogramming language - LAD Yes Know-how protection Ves Sopy protection Ves Sopy protection Ves Sopy protection Ves Protection level: Write protection Yes Protection level: Complete prote	• max.	70 °C
Operation. max.1080 hPa• Operation. max.1080 hPa• Storage/transport, max.1080 hPaAttude during operation relating to sea level-• Installation altitude, min1 000 m• Installation altitude, max.2000 mRelative humidity-• Operation, max.95 %; no condensation• Vibration resistance during operation acc. to IEC 60068-2-62 g (m/s ⁴) wall mounting, 1 g (m/s ⁴) DIN rail• Vibration resistance during operation acc. to IEC 60068-2-62 g (m/s ⁴) wall mounting, 1 g (m/s ⁴) DIN rail• Vibration resistance during operation acc. to IEC 60068-2-6Yes• Operation, tested according to IEC 60088-2-6Yes• Stock testing-• tested according to IEC 60088-2-7Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 msPollutant concentrationsS02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free	Air pressure acc. to IEC 60068-2-13	
Storage/transport, min. 660 hPa • Storage/transport, max. 1 080 hPa Attlude during operation relating to sea level -1 000 m • Installation altitude, min. -1 000 m • Installation altitude, max. 2 000 m Relative humidity - • Operation, max. 95 %; no condensation Vibrations 2 g (m/s ²) wall mounting, 1 g (m/s ²) DIN rall • Vibration resistance during operation acc. to LEC 60068-2.6 2 g (m/s ²) wall mounting, 1 g (m/s ²) DIN rall • Operation, tested according to IEC 60068-2.6 Yes Shock testing - • tested according to IEC 60068-2.27 Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peek value), duration 11 ms Pollutant concentrations - • SO2 at RH < 60% without condensation	Operation, min.	795 hPa
Storage/transport, max. 1 080 hPa Altitude during operation relating to sea level - • Installation altitude, min. -1 000 m • Installation altitude, max. 2 000 m Relative humidity - • Operation, max. 95 %; no condensation Vibrations 2 g (m/s ³) wall mounting, 1 g (m/s ³) DIN rail • Vibration resistance during operation acc. to IEC 60068-2-6 2 g (m/s ³) wall mounting, 1 g (m/s ³) DIN rail • Operation, tested according to IEC 60068-2-6 Yes Shock testing - • tested according to IEC 60068-2-7 Yes (EC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms Pollutant concentrations S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free	• Operation, max.	1 080 hPa
Altitude during operation relating to sea level Installation altitude, min. Installation altitude, max. Installation altitude, max. 2 000 m Relative humidity 95 %; no condensation Operation, max. 95 %; no condensation Vibration resistance during operation acc. to IEC 60068-2-6 Operation, tested according to IEC 60068-2-6 Yes tested according to IEC 60068-2-27 Yes tested according to IEC 60068-2-27 Yes tested according to IEC 60068-2-27 Yes SO2 at RH < 60% without condensation S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free	 Storage/transport, min. 	660 hPa
• Installation altitude, min. -1 000 m • Installation altitude, max. 2 000 m Relative humidity -2 000 m • Operation, max. 95 %; no condensation • Vibration resistance during operation acc. to IEC 60068-2-6 2 g (m/s ²) wall mounting, 1 g (m/s ²) DIN rail • Vibration resistance during operation acc. to IEC 60068-2-6 2 g (m/s ²) wall mounting, 1 g (m/s ²) DIN rail • Operation, tested according to IEC 60068-2-6 Yes Shock testing Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms Pollutant concentrations S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free	 Storage/transport, max. 	1 080 hPa
Installation altitude, max. 2 000 m Relative humidity 95 %; no condensation • Operation, max. 95 %; no condensation Vibrations 2 g (m/s ⁿ) wall mounting, 1 g (m/s ⁿ) DIN rail • Coperation, tested according to IEC 60068-2-6 Yes Shock testing 2 g (m/s ⁿ) wall mounting, 1 g (m/s ⁿ) DIN rail • tested according to IEC 60068-2-6 Yes Shock testing 1000000000000000000000000000000000000	Altitude during operation relating to sea level	
Relative humidity 95 %; no condensation • Operation, max. 95 %; no condensation • Vibration resistance during operation acc. to IEC 60068-2-6 2 g (m/s ²) wall mounting, 1 g (m/s ²) DIN rail • Operation, tested according to IEC 60068-2-6 Yes Shock testing • ves • tested according to IEC 60068-2-27 Yes, IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms Pollutant concentrations 502: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free	 Installation altitude, min. 	-1 000 m
Operation, max. 95 %; no condensation Vibrations Vibration resistance during operation acc. to IEC 60068-2-6 Operation, tested according to IEC 60068-2-6 Yes Shock testing • tested according to IEC 60068-2-27 Ves; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms Pollutant concentrations • SO2 at RH < 60% without condensation SO2: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free Configuration Programming Programming language	 Installation altitude, max. 	2 000 m
Vibration • Vibration resistance during operation acc. to IEC 60068-2-6 2 g (m/s³) wall mounting, 1 g (m/s³) DIN rail • Operation, tested according to IEC 60068-2-6 Yes Shock testing Yes • tested according to IEC 60068-2-27 Yes Pollutant concentrations So2: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free	Relative humidity	
• Vibration resistance during operation acc. to IEC 60068-2-6 2 g (m/s ²) wall mounting. 1 g (m/s ²) DIN rail • Operation, tested according to IEC 60068-2-6 Yes Shock testing Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms Pollutant concentrations S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free	• Operation, max.	95 %; no condensation
IEC 60068-2-6 Yes • Operation, tested according to IEC 60068-2-6 Yes Shock testing Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms Pollutant concentrations S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free	Vibrations	
Shock testing View lested according to IEC 60068-2-27 Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms Pollutant concentrations S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free		2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail
• tested according to IEC 60068-2-27 Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms Pollutant concentrations S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free	 Operation, tested according to IEC 60068-2-6 	Yes
value), duration 11 ms Pollutant concentrations • SO2 at RH < 60% without condensation	Shock testing	
• SO2 at RH < 60% without condensation	 tested according to IEC 60068-2-27 	Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms
Configuration Programming Programming language - LAD Yes - FBD Yes - SCL Yes Know-how protection Yes • User program protection/password protection Yes • Copy protection Yes • Block protection Yes • Block protection Yes • Protection level: Write protection Yes • Protection level: Write protection Yes • Protection level: Complete protection Yes • Protection level: Complete protection Yes • Protection level: Complete protection Yes • adjustable Yes Dimensions Yes	Pollutant concentrations	
Programming Programming language - LAD Yes - FBD Yes - SCL Yes Know-how protection Yes • User program protection/password protection Yes • Copy protection Yes • Copy protection Yes • Block protection Yes • Protection level: Write protection Yes • Protection level: Write protection Yes • Protection level: Complete protection Yes • Protection level: Complete protection Yes • Protection level: Complete protection Yes Cycle time monitoring Yes • adjustable Yes Dimensions 90 mm	 SO2 at RH < 60% without condensation 	S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free
Programming language Yes - LAD Yes - FBD Yes - SCL Yes Know-how protection Yes • User program protection/password protection Yes • Copy protection Yes • Block protection Yes • Protection level: Write protection Yes • Protection level: Write protection Yes • Protection level: Complete protection Yes • Protection level: Complete protection Yes • Protection level: Complete protection Yes • adjustable Yes Dimensions Yes Width 90 mm		
- LADYes- FBDYes- SCLYesKnow-how protectionYes• User program protection/password protectionYes• Copy protectionYes• Block protectionYes• Block protectionYes• Protection level: Write protectionYes• Protection level: Read/write protectionYes• Protection level: Complete protectionYes• Protection level: Complete protectionYes• Protection level: Complete protectionYes• adjustableYes• adjustableYesWidth90 mm		
FBD Yes SCL Yes Now-how protection Yes •User program protection/password protection Yes •Copy protection Yes •Block protection Yes •Block protection Yes •Protection level: Write protection Yes •Protection level: Read/write protection Yes •Protection level: Complete protection Yes • adjustable Yes Dimensions Yes	Configuration	
SCLYesKnow-how protectionYes• User program protection/password protectionYes• Copy protectionYes• Block protectionYes• Block protectionYes• Protection level: Write protectionYes• Protection level: Read/write protectionYes• Protection level: Complete protectionYes• Protection level: Complete protectionYes• adjustableYesDimensionsYesWidth90 mm	Configuration Programming	
Know-how protection Yes • User program protection/password protection Yes • Copy protection Yes • Block protection Yes • Access protection Yes • Protection level: Write protection Yes • Protection level: Read/write protection Yes • Protection level: Read/write protection Yes • Protection level: Complete protection Yes • Protection level: Complete protection Yes • Dimensions Yes Width 90 mm	Configuration Programming Programming language	Yes
• User program protection/password protectionYes• Copy protectionYes• Block protectionYes• Access protectionYes• Protection level: Write protectionYes• Protection level: Read/write protectionYes• Protection level: Complete protectionYes• Protection level: Complete protectionYes• DimensionsYesVidth90 mm	Configuration Programming Programming language — LAD	
• Copy protection Yes • Block protection Yes • Access protection Yes • Protection level: Write protection Yes • Protection level: Read/write protection Yes • Protection level: Complete protection Yes • Cycle time monitoring Yes • adjustable Yes	Configuration Programming Programming language — LAD — FBD	Yes
• Block protection Yes • Access protection Yes • Protection level: Write protection Yes • Protection level: Read/write protection Yes • Protection level: Complete protection Yes • Protection level: Complete protection Yes • Dimensions Yes	Configuration Programming Programming language — LAD — FBD — SCL	Yes
Access protection Yes • Protection level: Write protection Yes • Protection level: Read/write protection Yes • Protection level: Complete protection Yes Cycle time monitoring Yes • adjustable Yes Dimensions Yes Width 90 mm	Configuration Programming Programming language — LAD — FBD — SCL Know-how protection	Yes Yes
• Protection level: Write protectionYes• Protection level: Read/write protectionYes• Protection level: Complete protectionYesCycle time monitoringYes• adjustableYesDimensionsYesWidth90 mm	Configuration Programming Programming language — LAD — FBD — SCL Know-how protection • User program protection/password protection	Yes Yes
 Protection level: Read/write protection Protection level: Complete protection Yes Cycle time monitoring adjustable Yes Dimensions Width Yo mm 	Configuration Programming Programming language — LAD — FBD — SCL Know-how protection • User program protection/password protection • Copy protection	Yes Yes Yes Yes
 Protection level: Complete protection Yes Cycle time monitoring adjustable Yes Dimensions Yes 90 mm 	Configuration Programming Programming language LAD FBD SCL Know-how protection • User program protection/password protection • Copy protection • Block protection	Yes Yes Yes Yes
Cycle time monitoring Yes • adjustable Yes Dimensions 90 mm	Configuration Programming Programming language - LAD - FBD - SCL Know-how protection • User program protection/password protection • Copy protection • Block protection • Block protection Access protection	Yes Yes Yes Yes
• adjustable Yes Dimensions Width 90 mm	Configuration Programming Programming language - LAD - FBD - SCL Know-how protection • User program protection/password protection • Copy protection • Block protection • Block protection • Protection level: Write protection	Yes Yes Yes Yes Yes
Dimensions Width 90 mm	Configuration Programming Programming language - LAD - FBD - SCL Know-how protection • User program protection/password protection • Copy protection • Block protection • Protection level: Write protection • Protection level: Read/write protection	Yes Yes Yes Yes Yes Yes
Width 90 mm	Configuration Programming Programming language	Yes Yes Yes Yes Yes Yes
	Configuration Programming Programming language - LAD - FBD - SCL Know-how protection • User program protection/password protection • Copy protection • Block protection • Protection level: Write protection • Protection level: Complete protection • Protection level: Complete protection • Protection level: Complete protection	Yes Yes Yes Yes Yes Yes Yes Yes
Height 100 mm	Configuration Programming Programming language - LAD - FBD - SCL Know-how protection • User program protection/password protection • Copy protection • Block protection • Block protection • Protection level: Write protection • Protection level: Complete protection • Protection level: Complete protection • Adjustable	Yes Yes Yes Yes Yes Yes Yes Yes
	Configuration Programming Programming language - LAD - FBD - SCL Know-how protection • User program protection/password protection • Copy protection • Block protection • Protection level: Write protection • Protection level: Write protection • Protection level: Complete protection • Protection level: Complete protection • Adjustable Dimensions	Yes Yes Yes Yes Yes Yes Yes Yes
Depth 75 mm	Configuration Programming Programming language - LAD - FBD - SCL Know-how protection • User program protection/password protection • Copy protection • Block protection • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection • Protection level: Complete protection • Adjustable Dimensions Width Height	Yes Yes Yes Yes Yes Yes Yes Yes Yes

Weights	
Weight, approx.	425 g
last modified:	10/13/2020

