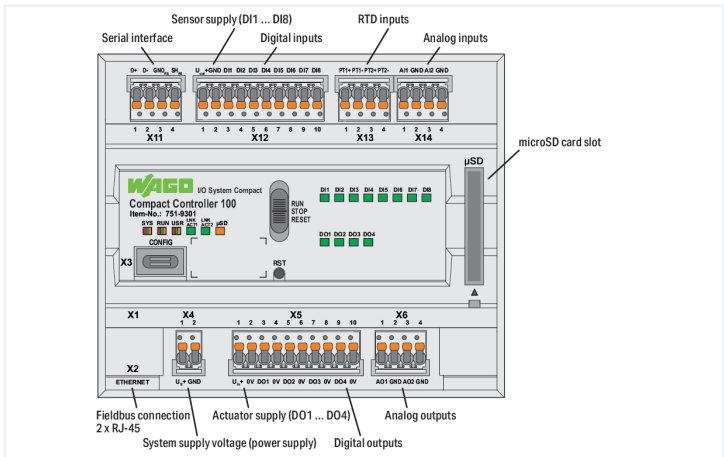
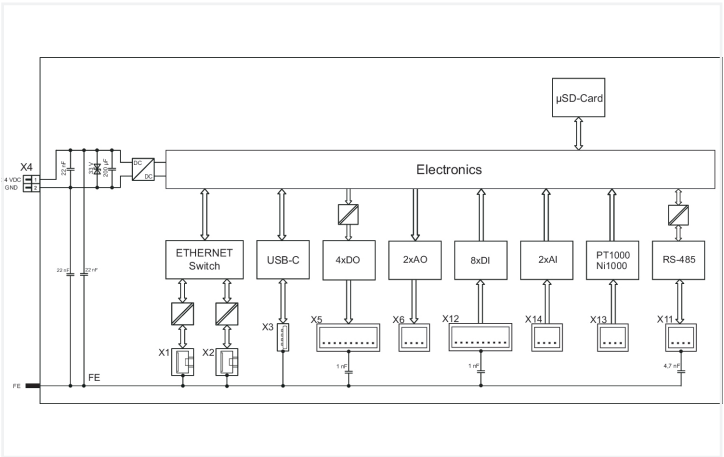
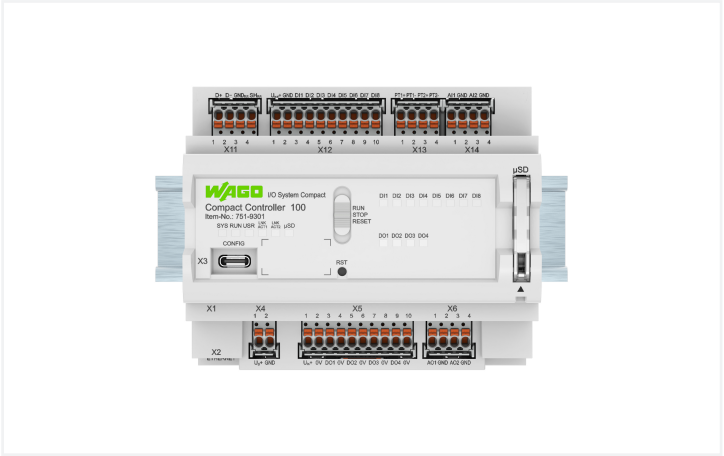
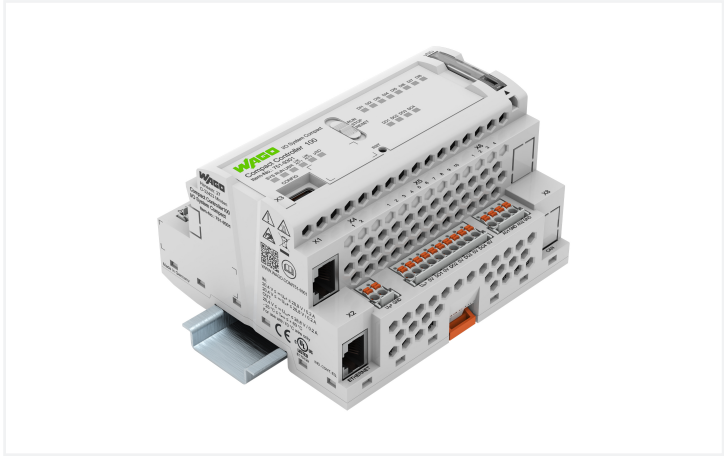




The Compact Controller 100 with a real-time Linux® operating system offers users complete freedom: it can be freely programmed with CODESYS V3, but also supports IEC 61131-independent engineering using tools like Node-RED, Python, or C++. Docker® can also be easily installed later on the device as a virtualization environment. This addition transforms the Compact Controller 100 into a full-fledged IIoT device with gateway functionality. In doing so, WAGO seamlessly integrates the requirements of two distinct domains into a single device, leveraging its expertise where “automation meets IT.” Another advantage of the Compact Controller 100 is its DIN-rail built-in design according to DIN 43880, allowing it to be mounted on small distribution boards. The I/O unit is housed within the same compact enclosure as the controller, eliminating the need for additional space for extra control components. The removable wiring interface simplifies both installation and commissioning.

Key Benefits:

- Fast, flexible, and intuitive engineering
- Controller with real-time Linux® operating system
- Compact controller with integrated I/Os in a DIN-rail-mount enclosure

Technical data

Communications	Modbus (TCP, UDP) EtherCAT® Master EtherNet/IP™ Adapter (slave) EtherNet/IP™ Scanner Modbus RTU RS-485 interface OPC UA Server/Client MQTT BACnet/IP, requires an additional license Telecontrol protocols, requires an additional license
ETHERNET protocols	DHCP DNS NTP FTP FTPS SNMP HTTP HTTPS SSH
Telecontrol protocols	IEC 60870 (additional license as slave or master) IEC 61850 (additional license as Client or Server) DNP3 (additional license as Slave or Master)
Visualization	Web-Visu
Operating system	Real-time Linux (with PREEMPT_RT patch)
CPU	Cortex A7; 650 MHz
Programming languages per IEC 61131-3	Instruction List (IL) Ladder Diagram (LD) Function Block Diagram (FBD) Continuous Function Chart (CFC) Structured Text (ST) Sequential Function Chart (SFC)
Programming environment	CODESYS V3.5 Node RED
Configuration options	CODESYS V3.5 Ethernet Settings Web-Based Management WAGOupload WAGO Solution Builder
Transmission rate	ETHERNET: 10/100 Mbit/s
Transmission medium (communication/fieldbus)	ETHERNET: Twisted pair S-UTP; 100 Ω; Cat. 5; 100 m maximum cable length
Main memory (RAM)	512 MB
Internal memory (flash)	4096 MB
Non-volatile hardware memory	128 KB
Program memory	32 MB
Data memory	128 MB
Non-volatile software memory	128 KB
Type of memory card	microSD up to 32 GB (all guaranteed properties only valid with WAGO's memory card)
Memory Card Slot	Push-push mechanism
Indicators	
Control Elements	Operating mode switch (RUN, STOP, RESET); reset button
Supply voltage (system)	24 VDC (-15 ... +20 %); via wiring interface (<i>picoMAX</i> ® 3.5; Push-in CAGE CLAMP® connection)
Current consumption (system) max.	500 mA
Supply voltage (field)	24 VDC (-15 ... +20 %); via wiring interface (<i>picoMAX</i> ® 3.5; Push-in CAGE CLAMP® connection)
Field current consumption max. (digital outputs)	2000 mA

Technical data	
Isolation	1250 V (DC 1 min., between system and field level (digital outputs))

Technical Data (Inputs/Outputs)

Digital inputs		Digital outputs	
Number of digital inputs	8	Number of digital outputs	4
Input characteristic	Type 3 (per EN 61131-2)	Output current (per channel)	500 mA (DC)
		Output current	short-circuit-protected

Analog inputs	
Number of analog inputs	2
Resolution of analog inputs	16 bits
Input signal (voltage)	0 ... 10 V

Analog outputs	
Number of analog outputs	2
Resolution of analog outputs	12 bits
Output signal (voltage)	0 ... 10 V
Load impedance (voltage output)	≥ 5 kΩ

RTD inputs	
Number of measurement inputs	2
Temperature range	−60 ... 350 °C, Pt1000, Ni1000

Connection Data	
Connection technology: communication/fieldbus	Modbus (TCP, UDP): 2 x RJ-45; RS-485 interface: 1 x Female connector, 4-pole; Push-in CAGE CLAMP®
Connection technology: system supply	1 x Female connector, 2-pole; Push-in CAGE CLAMP®
Connection technology: field supply	2 x Female connector, 10-pole; Push-in CAGE CLAMP®
Connection type	Female connector; Push-in CAGE CLAMP®
Connectable conductor materials	Copper
Solid conductor	0.2 ... 1.5 mm² / 24 ... 14 AWG
Fine-stranded conductor	0.2 ... 1.5 mm² / 24 ... 14 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches

Physical data	
Width	108 mm / 4.252 inches
Height	90 mm / 3.543 inches
Depth from upper-edge of DIN-rail	55 mm / 2.165 inches

Mechanical data	
Mounting type	DIN-35 rail

Material data	
Housing material	Polycarbonate, polyamid
Weight	190 g
Conformity marking	CE; UKCA



Environmental requirements		
Ambient temperature (operation)		-25 ... +60 °C
Ambient temperature (storage)		-25 ... +85 °C
Protection type		IP20
Pollution degree		2 per IEC 61131-2
Operating altitude		0 ... 2000 m / 0 ... 6562 ft
Mounting position		any
Relative humidity (without condensation)		95 %
Vibration resistance		1g per IEC 60068-2-6
Shock resistance		15g per IEC 60068-2-27
EMC immunity to interference		per EN 61000-6-2
EMC emission of interference		per EN 61000-6-3

Data Act		
Pre-contractual Information		Data-Act-751-SeriesCompact-Controller-100

Commercial data		
PU (SPU)		1 pcs
Packaging type		Box
Country of origin		DE
GTIN		4066966192865
Customs tariff number		85371091990

Product Classification		
UNSPSC		32151705
ETIM 9.0		EC000236
ETIM 10.0		EC000236
ECCN		NO US CLASSIFICATION

Environmental Product Compliance		
RoHS Compliance Status		Compliant, No Exemption
SCIP notification number (Austria)		13e43657-c079-4877-9572-133b61a75030
SCIP notification number (Belgium)		88db0a66-266c-4eee-8bc0-ca9419ffa2ce
SCIP notification number (Bulgaria)		11dc09ae-19b1-4f53-a36d-08c843f71d7a
SCIP notification number (Czech Republic)		bec5377d-5859-41c6-b4cb-48c5d05e2a75
SCIP notification number (Denmark)		e9279165-016d-453f-9dcc-3276a5d77b81
SCIP notification number (Finland)		9e16130a-1548-4524-851e-73aef0bf2f7d
SCIP notification number (France)		3c08470f-91e2-4da4-9406-fb48097d5db5
SCIP notification number (Germany)		5d894a4c-6de8-4534-98b1-627be0119caf
SCIP notification number (Hungary)		d58f4caf-ceb4-4db3-9661-bea780fa2c68
SCIP notification number (Italy)		38077f8a-efe7-497e-89aa-70f38853d1bf
SCIP notification number (Netherlands)		87a8e65c-e155-4a98-8930-8cb1afff7c42
SCIP notification number (Poland)		365a1927-9cc7-48b5-abfb-cb13c9ef76f4
SCIP notification number (Romania)		3b91c177-6f13-4542-89b8-455ac81906cb
SCIP notification number (Sweden)		dd94e5b3-71a4-44f4-ad14-2ccabcc82a1c

Approvals / Certificates		
General approvals		Declarations of conformity and manufacturer's declarations
		
Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03083
KC National Radio Research Agency	Article 58-2, Clause 3	R-R-W43-CC751
		Declarations of conformity and manufacturer's declarations
Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications		
		
Approval	Standard	Certificate Name
BSH Bundesamt fuer Seeschiff-fahrt und Hydrographie	-	1155
DNV DNV GL SE	DNV-CG-0339,Aug.2021	DNV TAA00003G6

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 751-9301	

Documentation			
Manual		System Description	
Product manual WAGO Device Manager	1552525323 7 en-US 2026-07-01 16:31 13.07.2026	pdf 2484.22 KB	
Product Manual Compact Controller 100	1.7.0 16.08.2024	pdf 2190.55 KB	
Bid Text			
751-9301		xml 8.82 KB	
751-9301		docx 29.96 KB	



CAD/CAE-Data

CAD data			
2D/3D Models 751-9301			

Engineering-Software

Configuration and Commissioning Software			
WAGOupload	1.16.1.0 02.02.2022	zip 12111.45 KB	

Runtime Software

Firmware			
0751-9301, Compact Controller 100	V 23 30.11.2022	zip 97394.03 KB	
751-9301, Compact Controller 100	V 23 30.11.2022	zip 96534.07 KB	

System Software

CODESYS V3.5	
--------------	--

1 Compatible Products

1.1 Product Expansions

1.1.1 Runtime software

 Item No.: 2759-2283/211-1000 Runtime; BACnet; 300; M; Single License; Online activation	 Item No.: 2759-2273/211-1000 Runtime; BACnet; 300; S; Single License; Online activation	 Item No.: 2759-283/211-1000 Runtime; BACnet; 300; Single License; On-line activation	 Item No.: 2759-2293/211-1000 Runtime; DNP3 Master; M; Single License; Online activation
 Item No.: 2759-2290/211-1000 Runtime; DNP3 Slave; Single License; Online activation	 Item No.: 2759-293/211-1000 Runtime; IEC60870 Master; M; Single License; Online activation	 Item No.: 2759-290/211-1000 Runtime; IEC60870 Slave; Single License; Online activation	 Item No.: 2759-2243/211-1000 Runtime; IEC61850 Client; M; Single License; Online activation
 Item No.: 2759-2240/211-1000 Runtime; IEC61850 Server; Single License; Online activation	 Item No.: 2759-248/211-1000 Runtime; Multi Cloud Connectivity; Single License; Online activation	 Item No.: 2759-247/211-1000 Runtime; Sparkplug; Single License; Online activation	

1.2 Optional Accessories

1.2.1 Female connector

1.2.1.1 Female connector/socket

 Item No.: 2091-1130 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 10-pole; 1,50 mm²; light gray	 Item No.: 2091-1110/002-000 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 10-pole; Gripping plate sliding connector release; 1,50 mm²; light gray	 Item No.: 2091-1110 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 10-pole; Gripping plate; 1,50 mm²; light gray	 Item No.: 2091-1122 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; 1,50 mm²; light gray
 Item No.: 2091-1102/002-000 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; Gripping plate sliding connector release; 1,50 mm²; light gray	 Item No.: 2091-1102 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 2-pole; Gripping plate; 1,50 mm²; light gray	 Item No.: 2091-1124 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 4-pole; 1,50 mm²; light gray	 Item No.: 2091-1104/002-000 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 4-pole; Gripping plate sliding connector release; 1,50 mm²; light gray
 Item No.: 2091-1104 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 4-pole; Gripping plate; 1,50 mm²; light gray			

1.2.2 Memory card

1.2.2.1 Memory card

Item No.: 758-879/000-3116 Memory Card SD Micro; pSLC-NAND; 16 GB; Temperature range: -40 to 85°C

1.2.3 Tool

1.2.3.1 Operating tool


Item No.: 2092-1630 Unlocking tool; orange