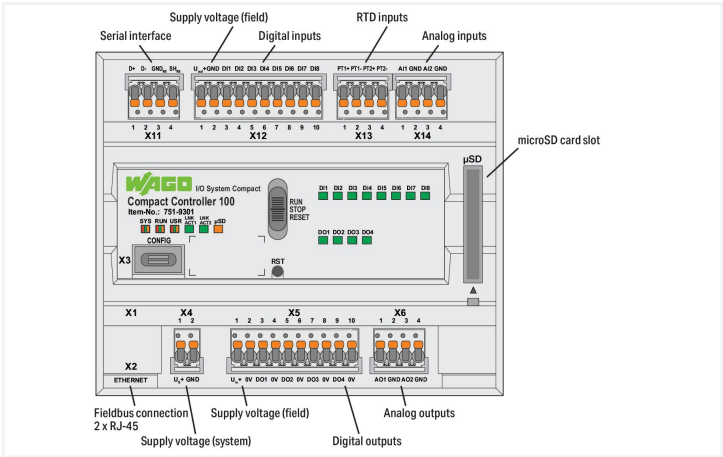
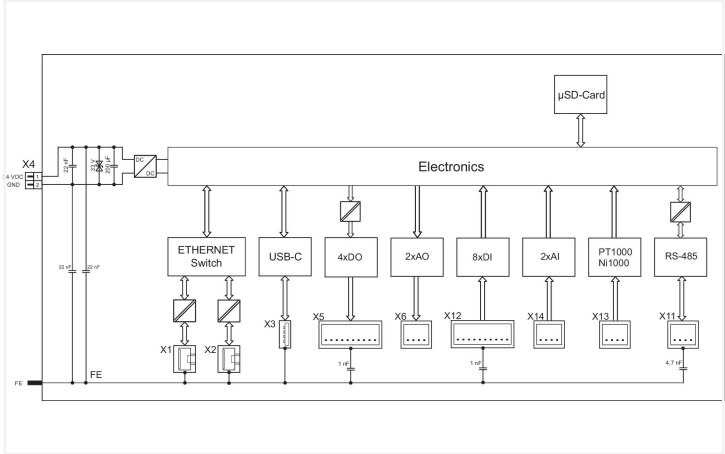




<https://www.wago.com/751-9301>



Technical data	
Communication	Modbus (TCP, UDP) EtherCAT® Master EtherNet/IP™ Adapter (slave) EtherNet/IP™ Scanner Modbus RTU RS-485 interface OPC UA Server/Client MQTT Telecontrol protocols, requires an additional license BACnet/IP, requires an additional license
ETHERNET protocols	DHCP DNS NTP FTP FTPS SNMP HTTP HTTPS SSH
Visualization	Web-Visu
Operating system	Real-time Linux (with RT-Preempt 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

Technical data

Configuration options	CODESYS V3.5 ETHERNET Settings Web-Based Management WAGOupload WAGO Solution Builder
Baud rate (communication/fieldbus 1)	10/100 Mbit/s
Baud 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	LED (SYS, RUN), red/green: Status of system; LED (USR) red/green: User programmable status (can be used via CODESYS library); LED (SD) orange: Status of microSD; LED (LNK/ACT) green: Network connection via ports 1 ... 2; LED (DI1 ... 8) green: Status of inputs; LED (DO1 ... 4) green: Status of outputs
Controls	Operating mode switch (RUN, STOP, RESET); reset button
Supply voltage (system)	24 VDC (-15 ... +20 %); via pluggable connector (<i>picoMAX</i> ® 3.5; Push-in CAGE CLAMP® connection)
Current consumption (system) max.	500 mA
Supply voltage (field)	24 VDC (-15 ... +20 %); via pluggable connector (<i>picoMAX</i> ® 3.5; Push-in CAGE CLAMP® connection)
Current consumption (field) max. (digital outputs, $U_{in}+$)	2000 mA
Isolation	1250 V (DC 1 min., between system and field level (digital outputs))
Number of digital inputs	8
Input characteristic	Type 3 (per EN 61131-2)
Number of digital outputs	4
Output current (per channel)	500 mA (DC)
Output current	short-circuit-protected
Signal type	Voltage Resistance measurement
Signal type (voltage)	0 ... 10 VDC
Number of analog inputs	2
Resolution of analog inputs	16 bits
Number of analog outputs	2
Resolution of analog outputs	12 bits
Load impedance (voltage output)	$\geq 5 \text{ k}\Omega$
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®
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	
Weight	190 g
Housing material	Polycarbonate, polyamid
Conformity marking	CE; UKCA

Environmental requirements	
Ambient temperature (operation)	-25 ... +60 °C
Ambient temperature (storage)	-40 ... +85 °C
Protection type	IP20
Pollution degree	2 per IEC 61131-2
Operating altitude	0 ... 2000 m / 0 ... 6562 ft
Relative humidity (without condensation)	95 %
Mounting position	any
Mounting type	DIN-35 rail
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
Fire load	0 MJ

Commercial data	
ETIM 8.0	EC000236
ETIM 7.0	EC000236
PU (SPU)	1 pcs
Country of origin	DE
GTIN	4066966192865
Customs tariff number	85371091990

Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption

Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
 					
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
KC National Radio Research Agency	Article 58-2, Clause 3	R-R-W43-CC751	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 61010-2-201	E175199			

Downloads



Environmental Product Compliance

Compliance Search			
Environmental Product Compliance 751-9301			↓

Documentation

Manual				System Description		
Product Manual Compact Controller 100	V 1.4.0 06.04.2023	pdf 2093.58 KB	↓	Compact Controller 100, Allgemeine Produktinformationen	pdf 238.31 KB	↓

Bid Text			
751-9301		xml 8.82 KB	↓
751-9301		docx 29.96 KB	↓

Application Notes

Application Note CoDeSys 2.3			
CC 100 Codesys V3.5 Firmware	V 25 14.07.2023	zip 0.02 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	↓

1 Compatible Products



1.1 Optional Accessories

1.1.1 Female connector

1.1.1.1 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

1.1.2 Memory card

1.1.2.1 Memory card



Item No.: 758-879/000-3102
Memory Card SD Micro; 2 GByte



Item No.: 758-879/000-3108
Memory Card SD Micro; pSLC-NAND; 8 GB; Temperature range: -40 to 90°C

1.1.3 Tool

1.1.3.1 Operating tool



Item No.: 2092-1630
Unlocking tool; orange