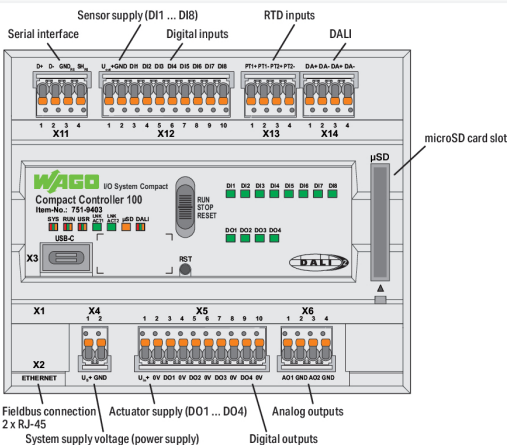
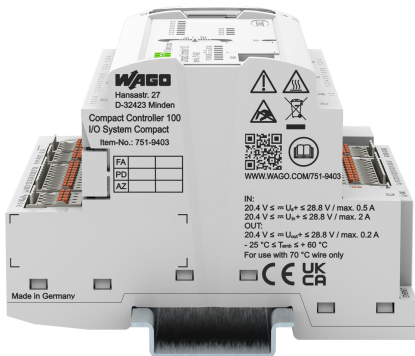
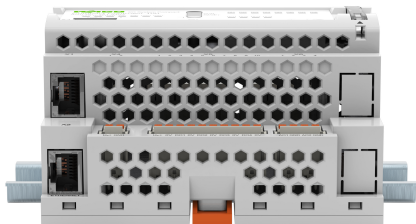
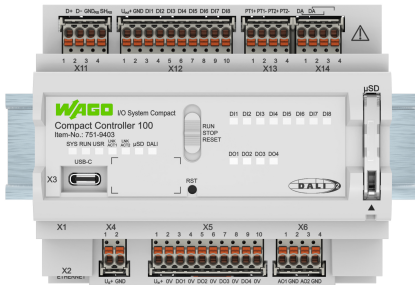
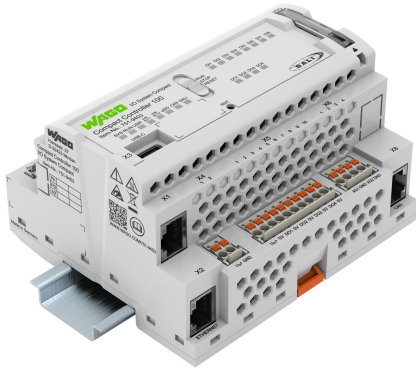
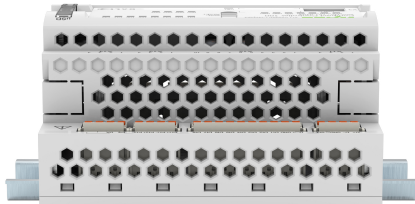
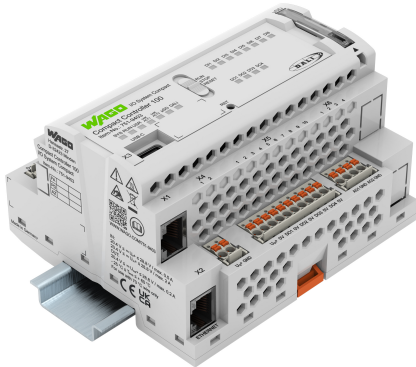


Data Sheet | Item Number: 751-9403
Compact Controller 100; 8DI 4DO 2AO 2NI1K/PT1K 1RS485 1DALI; 2 x ETHERNET;
SD

<https://www.wago.com/751-9403>



Technical data	
Communications	Modbus (TCP, UDP) EtherCAT® Master EtherNet/IP™ Adapter (slave) EtherNet/IP™ Scanner Modbus RTU OPC UA Server/Client OPC UA Pub/Sub (can be installed later) MQTT RS-485 interface BACnet/IP, requires an additional license Telecontrol protocols, requires an additional license DALI-2
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	2 x 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	10/100 Mbit/s
Transmission medium (communication/fieldbus)	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: System status; LED (USR), red/green: User-programmable status (accessible via CODESYS library); LED (μSD), orange: microSD card status; LED (LNK/ACT), green: Network connection status via ports 1 ... 2; LED (DI1 ... 8), green: Status of inputs; LED (DO1 ... 8) green: Status of inputs and outputs
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) $U_{in}+$	2000 mA
Isolation	1250 V (DC 1 min., between system and field level (digital outputs))



DALI Interface	
Device specification	DALI-2 specification: DIN IEC 62386
Device-specific	Current consumption from DALI bus: 10 mA
Supply voltage	External
Topology	Number of control gears/control devices (DALI): 64 control gears + 64 control devices (addressable)
Transmission channel	1

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 outputs		RTD inputs	
Number of analog outputs	2	Number of measurement inputs	2
Resolution of analog outputs	12 bits	Temperature range	-60 ... 350 °C, Pt1000, Ni1000
Load impedance (voltage output)	≥ 5 kΩ		

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®
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
Fire load	0 MJ
Weight	270 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

Commercial data		
PU (SPU)		1 pcs
Packaging type		Box
Country of origin		DE
GTIN		4066966687873
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

Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
					
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
KC	Article 58-2, Clause 3	R-R-W43-CC751	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
National Radio Research Agency			UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 751-9403

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Documentation

Manual

Product Manual WAGO Compact Controller 100 DALI

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pdf 5424.08 KB

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CAD/CAE-Data

CAD data

2D/3D Models 751-9403

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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; 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

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Continued on next page



1.2.1.1 Female connector/socket



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.: 758-879/000-3102
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

1.2.3 Tool

1.2.3.1 Operating tool



Item No.: 2092-1630
Unlocking tool; orange