

Data sheet | Item number: 751-9301 **NEW**

Compact Controller 100; 8DI 4DO 2AI 2AO 2NI1K/PT1K 1RS485; 2 x
ETHERNET; SD



www.wago.com/751-9301



Subject to changes. Please also observe the further product documentation!

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Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



Data

Technical data

Communication

RS-485 interface
Modbus (TCP, UDP)
Modbus® RTU
RS-485 serial interface

ETHERNET protocols

DHCP
DNS
NTP
FTP
FTPS
SNMP
HTTP

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	HTTPS SSH
Visualization	Web-Visu 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
Configuration options	CODESYS V3.5 ETHERNET Settings Web-Based Management
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 Kbytes
Program memory	32 MB
Data memory	128 MB
Non-volatile software memory	128. Kbytes
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 μSD; 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 (5 V system supply)	2000 mA
Supply voltage (field)	24 VDC (-15 ... +20 %); via pluggable connector (<i>picoMAX</i> [®] 3.5; Push-in CAGE CLAMP [®] connection)
Isolation	500 V (DC 1 min., between system and field level)

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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)	≥ 5 kΩ
Number of measurement inputs	2
Temperature range	-60 °C ... 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 mm ² / 24 ... 14 AWG
Fine-stranded conductor	0.2 ... 1.5 mm ² / 24 ... 14 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inch

Physical data

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

Mechanical data

Weight	348 g
Housing material	Polycarbonate, polyamid
Conformity marking	CE; UKCA

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Environmental requirements


Ambient temperature (operation)	-25 ... +60 °C
Surrounding air temperature (storage)	-40 ... +85 °C
Protection type	IP20
Pollution degree (5)	2 per IEC 61131-2
Protection class	II
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

Commercial data

PU (SPU)	1 Pieces
Country of origin VKOrg Germany	DE
GTIN	4055144141085
Customs tariff number VKOrg Germany	85371091990

Approvals / Certificates

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 61010-2-201	E175199

Optional accessories

Tool

Operating tool	
Item no.: 2092-1630	www.wago.com/2092-1630
Unlocking tool; orange	

Memory card

Subject to changes. Please also observe the further product documentation!

Memory card

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

www.wago.com/758-879/000-3102



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

www.wago.com/758-879/000-3108

Female connector

Female connector/socket

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

www.wago.com/2091-1110

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

www.wago.com/2091-1110/002-000

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

www.wago.com/2091-1122

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

www.wago.com/2091-1124

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

www.wago.com/2091-1130

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

www.wago.com/2091-1104/002-000

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

www.wago.com/2091-1104

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

www.wago.com/2091-1102/002-000

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

www.wago.com/2091-1102

Downloads

Documentation

Manual

Compact Controller 100

8DI 4DO 2AI 2AO 2NI1K/PT1K 1RS485; 2 x ETHERNET; SD

V 1.2.0

11 Mar 2022

pdf

2.1 MB

Download

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Engineering-Software**CODESYS V3 with WAGO DSP**

CODESYS Development System V3 including WAGO Device Support Package	V 1.2 14 Mar 2022	zip 1.6 GB	Download
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Have you not yet installed CODESYS Development System V3? Would you like to program the Compact Controller 100 I/O System Compact? Then you've come to the right place!

With CODESYS Development System V3, you program according to the IEC 61131-3 standard. The software enables graphical and textual programming. Create visualizations with the integrated visualization editor and simulate your code.

You benefit from several WAGO libraries that support your application.

The download includes:

- CODESYS V3.5.x, 64-bit
- WAGO libraries
- Device description for Compact Controller 100

WAGO DSP for CODESYS V3

WAGO Device Support Package for CODESYS Development System V3	V 1.2 14 Mar 2022	zip 260.6 MB	Download
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Have you already installed CODESYS Development System V3 (min. V3.5.16.3) and only need WAGO libraries and device descriptions for the WAGO Compact Controller 100 I/O System Compact? Then you've come to the right place!

Use your CODESYS Development System V3 and expand it with the device description of the Compact Controller 100 and several WAGO libraries.

The download includes:

- WAGO libraries
- Device description for Compact Controller 100

Configuration and Commissioning Software

WAGOupload	1.15.0.0 2 Feb 2022	zip 11.7 MB	Download
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WAGOupload is a stand-alone PC software for transferring, backing up and restoring PLC applications on WAGO 750 Series controllers.

Runtime Software

Firmware

0751-9301, Compact Controller 100 WAGO_FW0751-9301_V030808_IX21_I	V 21 18 Mar 2022	zip 65.2 MB	Download
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751-9301; Compact Controller 100 WAGO_FW0751-9301_V030904_IX21_W	V 21 18 Mar 2022	zip 63.6 MB	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 751-9301 Compact Controller 100; 8DI 4DO 2AI 2AO 2NI1K/PT1K 1RS485; 2 x ETHERNET; SD	URL	Download
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Installation Notes

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