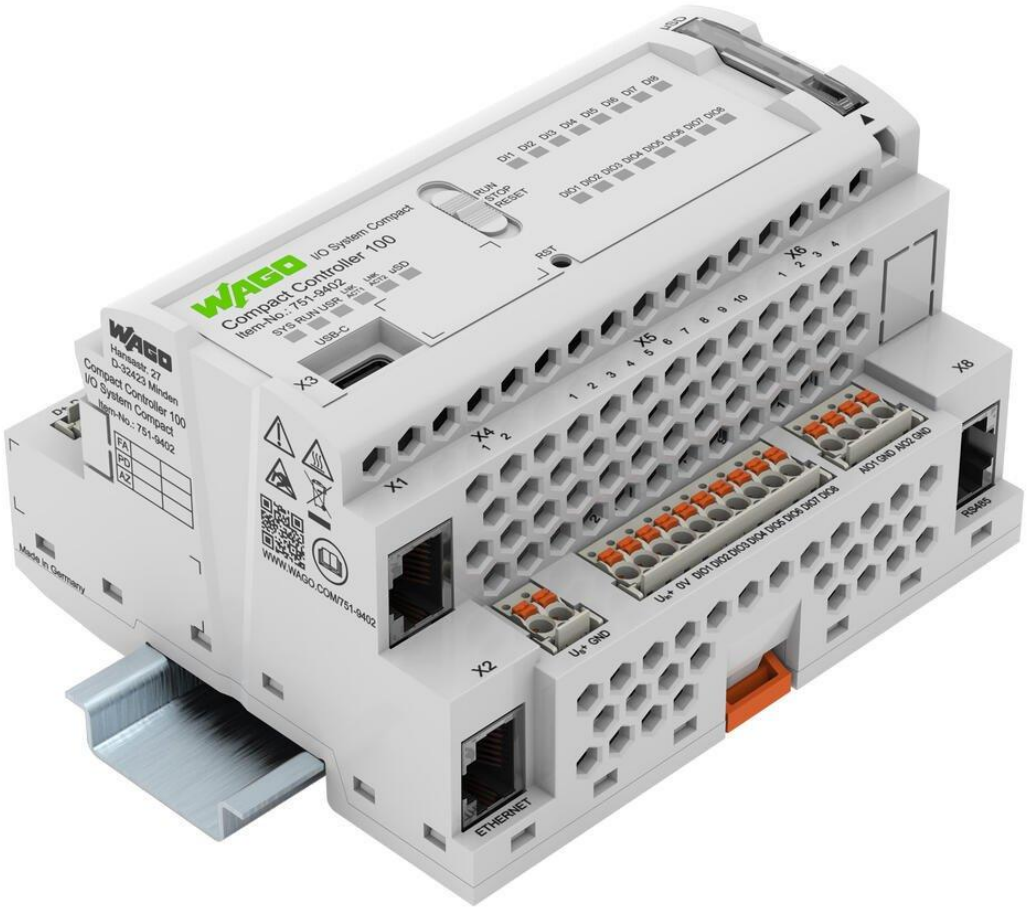
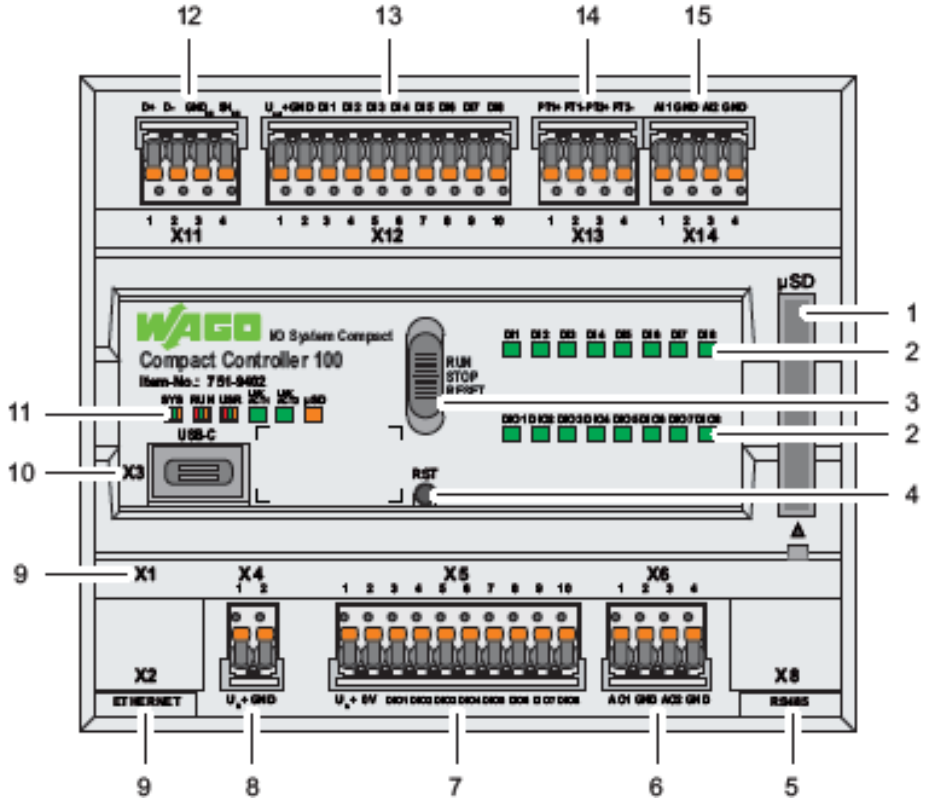
Quickstart manual



1. Product Overview

The **WAGO CC100 (751-9402)** is a compact PLC with:

- **8× DI**, **8× DIO**,
- **2× AI**, **2× AIO**,
- **2× RTD inputs**,
- **2× RS-485**,
- **2× Ethernet**,
- **microSD slot**,
- **USB-C service interface.**



1 **Memory Card Slot**
2 **LEDs Status DI/DIO**
3 **Mode Selector Switch**
4 **Reset Button**
5 Communication Interface X8
6 **Analog Inputs/Outputs - X6**
7 **Digital Inputs/Outputs - X5**
8 **Supply Voltage - X4**
9 **ETHERNET Interfaces - X1, X2**
10 **USB-C Service Interface - X3**
11 **System LEDs**
LNK ACT LEDs
Memory Card Slot LED
12 Communication Interface X11
13 **Digital Inputs - X12**
14 **RTD Inputs - X13**
15 **Analog Inputs - X14**

Use in a dry indoor cabinet/enclosure only.

2. Safety Requirements

- Disconnect power before wiring.
- Use **SELV/PELV 24 VDC supplies**.
- Only qualified electricians (EN 50110 / IEC 60364).
- Ground the DIN rail; keep signal and power wiring separated for EMC.

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3. Mechanical Installation

3.1 Mounting on DIN-Rail (EN 60715)

1. Tilt the device slightly.
2. Hook the top edge onto the DIN rail.
3. Press down until it **audibly clicks**.
4. Gently shake to verify secure locking.
5. Install end-stops on both sides.
   .

Permitted mounting positions

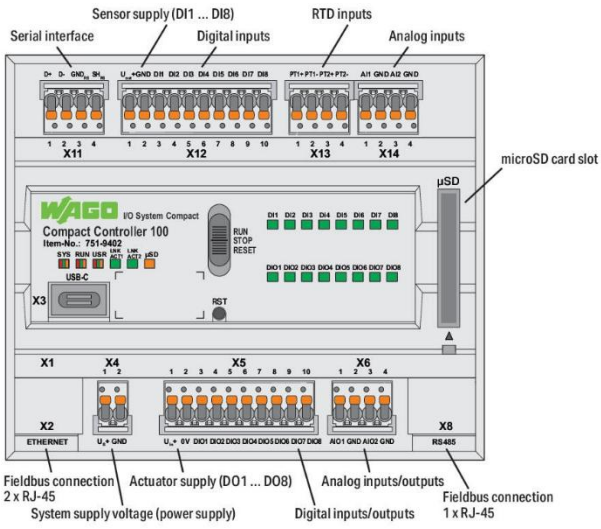
- Horizontal: −25…+60 °C with 10 mm spacing
- Vertical / upside-down: −25…+50/55 °C.pdf)

Maintain clearance for heat dissipation.

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4. Electrical Connections

All connectors are included but **not pre-installed**.
Use WAGO **picoMAX® push-in connectors**.



4.1 Power Supply

Two power inputs must be wired:

System supply – X4

- **Pin 1:** US+ (24 VDC)
- **Pin 2:** GND

Field I/O supply – X5

- **Pin 1:** Uin+ (24 VDC)
- **Pin 2:** 0V

⚠ **Important:** Energize X5 **before or at same time as** X4

4.2 Digital Inputs (X12)

10-pole connector:

Pin	Function
1	Uout+ (sensor supply)
2	GND
3–10	DI1…DI8 (24 VDC, type 3)

Input LED ON = high (24 V).

4.3 Digital Inputs/Outputs (X5)

DIO1–DIO8 support both input and output (0.5 A max).

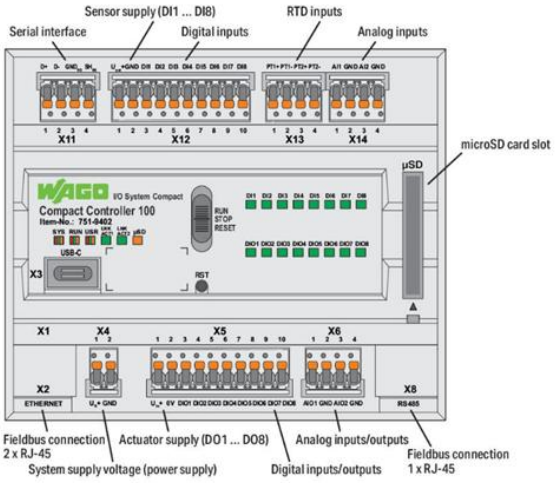
Pin	Function
1	Uin+ (field supply)
2	0V
3–10	DIO1…DIO8

Outputs are **high-side switching**.

4.4 Analog Inputs (X14)

- 0–10 V, ±10 V, 0–20 mA, 4–20 mA, 3.6–21 mA

Pin	Function
1	AI1
2	GND
3	AI2
4	GND



4.5 Analog I/O (X6)

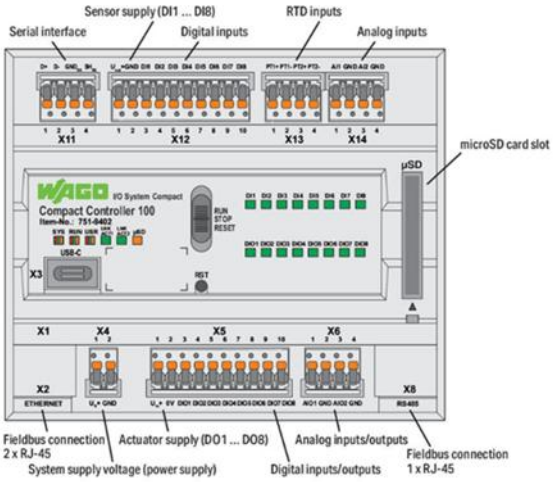
Same ranges as above plus analog output ranges (0–10 V, ±10/12 V, 0–22 mA).

Pin	Function
1	AIO1
2	GND
3	AIO2
4	GND

4.6 RTD Inputs (X13)

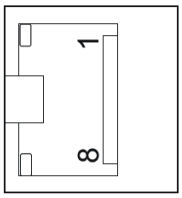
Supports Pt100/500/1000, Ni100/1000, potentiometers.

Pin	Function
1	PT1+
2	PT1–
3	PT2+
4	PT2–



4.7 Ethernet (X1/X2)

- RJ45 10/100 Mbit
- Switch mode (one IP) or separate interfaces (two IPs)



4.8 USB-C Service Port (X3)

Used for commissioning with WAGO Ethernet Settings.
Device appears at **192.168.42.42** over USB.

4.9 RS-485 Interfaces (X8, X11)

- Half-duplex
- Integrated termination + biasing
- The X8 communication interface is designed as an RJ45 socket

Contact	Signal	Description
1	---	Not assigned
2	---	Not assigned
3	---	Not assigned
4	D−	Transmit/receive data −
5	D+	Transmit/receive data +
6	---	Not assigned
7	+5V_RS	Supply
8	GND_RS	Ground

- The X11 communication interface is designed as a picoMAX® Pluggable Connector

Contact	Signal	Description
1	---	Not assigned
2	---	Not assigned
3	---	Not assigned
4	D−	Transmit/receive data −
5	D+	Transmit/receive data +

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5. First Startup / Commissioning

5.1 Power-up

1. Turn on 24 VDC supply.
2. SYS LED blinks → device booting.
3. SYS steady green → system ready.
4. RUN LED green → PLC program running (if present)

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6. Network Configuration

6.1 Default Addresses

- **USB connection:** 192.168.42.42
- **Ethernet X1/X2:** DHCP by default

6.2 Temporarily set fixed IP (192.168.1.17)

Useful if the IP is unknown.

1. Set mode switch → **STOP**
2. Hold reset button **> 8 seconds**
3. SYS LED flashes orange → fixed IP active
4. Access via **192.168.1.17**

6.3 Setting IP via Web-Based Management (WBM)

1. Connect Ethernet to your PC
2. Open browser → https://<IP address>/wbm
3. Login (default = **admin / wago**)
4. Go to **Configuration → Networking → TCP/IP Configuration**
5. Set:
    - IP Source → Static
    - Enter IP, Subnet, Gateway
6. Click **Submit**

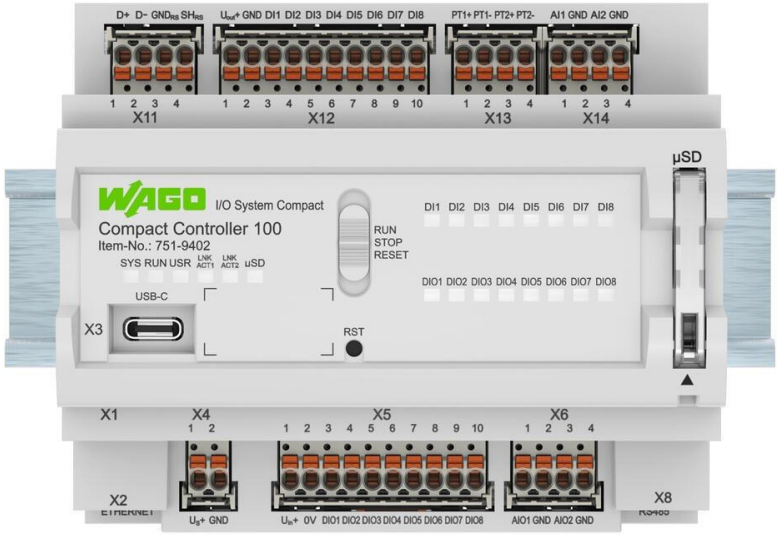
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7. Memory Card (optional)

- Push-push mechanism behind flap
- Used for backup/restore, firmware updates, boot project
- LED orange flashing = active access
- Removing card during write may cause data loss.pdf) [m07519402-...en (3).pdf | PDF]

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8. LED Quick Diagnostics



LED	Meaning
SYS	Green = OK, Orange = booting, Flash orange = temp IP
RUN	Green = program running, Flashing = no app, Red = STOP
DI/DIO	Green = channel high
LNK/ACT	Green = link, Flash = traffic
µSD	Orange = access
