





# S U M M A R Y

## **RUW200**

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03

## **Introduction**

---

04

## **Highlights**

---

05

## **Connectivity**

---

10

## **Dimensions**

---

11

## **Specifications**

---

13

## **Expansion modules**

---

13



# RUW200

Connect more  
Control more



Modular, smart, scalable, and  
integrable remote I/O system.

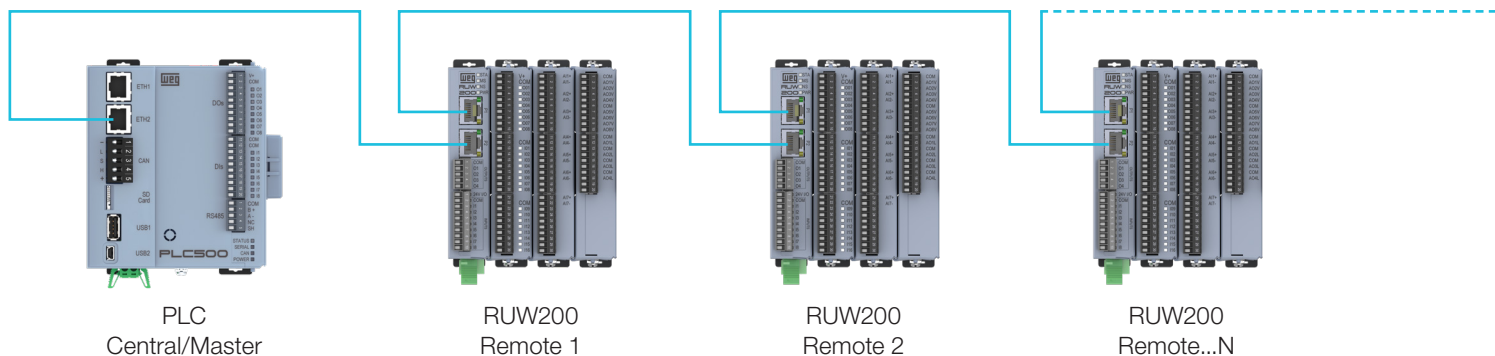




# Decentralize and optimize your processes with precision and performance

In the constant search for evolution and greater productivity, industries increasingly invest in automation. WEG Remote Unit **RUW200** allows you to develop flexible and scalable solutions for connecting remote I/O systems, thus enabling a perfect connectivity and integration solution for large decentralized industrial automation systems and applications.

These remote units are locally distributed in the process and connected to field signals from sensors, pushbuttons, actuators and electrical drives. Those signals are concentrated in the remote units which, through a single **Ethernet** communication cable, are connected to the central process controller, thus allowing the use of more compact panels and the reduction of cables.





FLEXIBLE

MODULAR

VALUE FOR MONEY

SMART

SCALABLE

PERFORMANCE

## Highlights



Scalable  
remote I/Os



Compact  
design



Expandable  
modular design



Easily add  
new expansions,  
Plug & Play



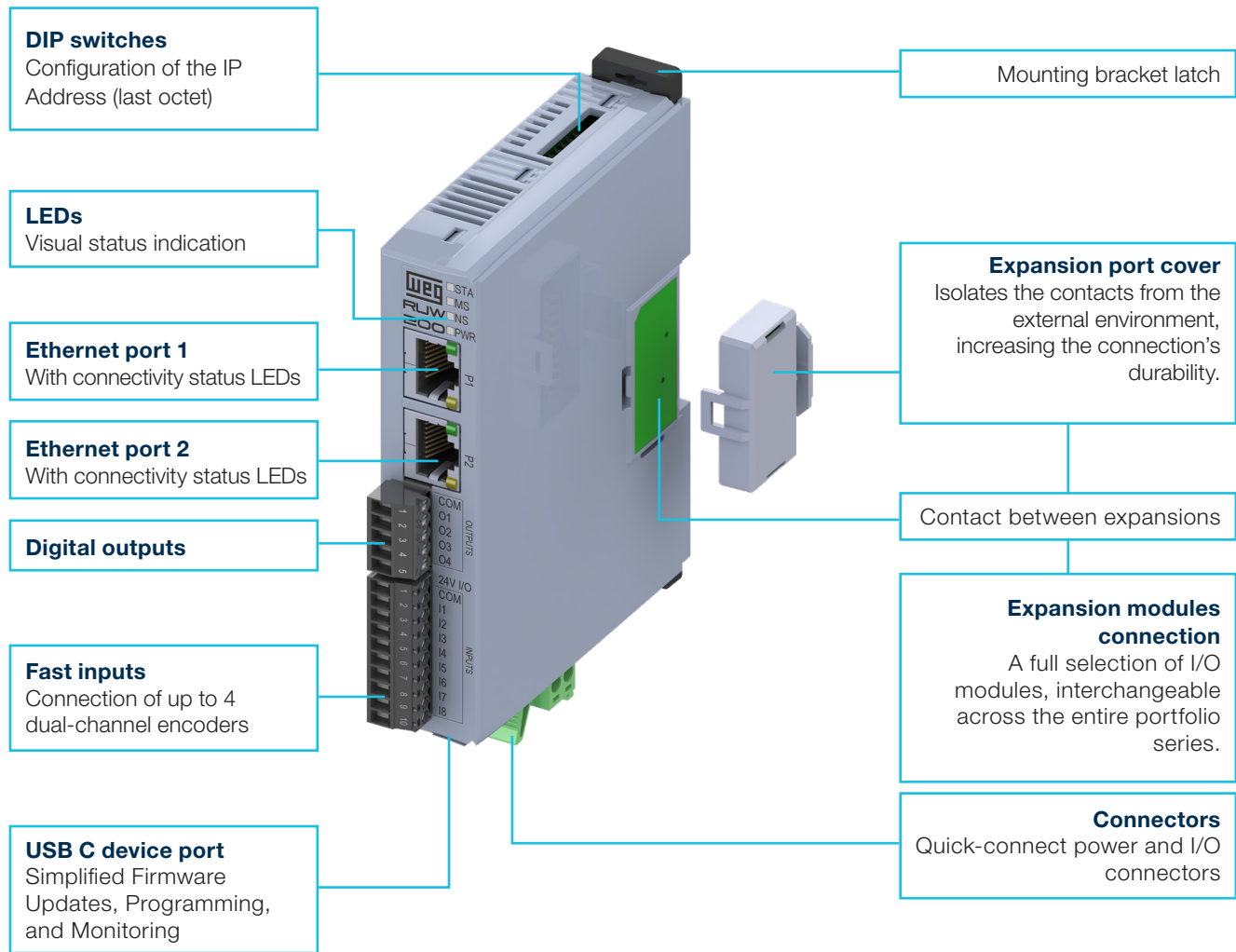
Add up to eight  
expansion modules  
locally



WEG IoT Ready



# Perform complex tasks with high performance processing



# Automate with efficiency and connectivity

## Compatibility with your PLC

The RUW200 Remote Unit is ideal for scaling the number of inputs and outputs of your applications, with modular hardware developed to deliver maximum connectivity. The RUW200 can be connected via network to any PLC or industrial controller via Modbus TCP and EtherNet/IP protocols.

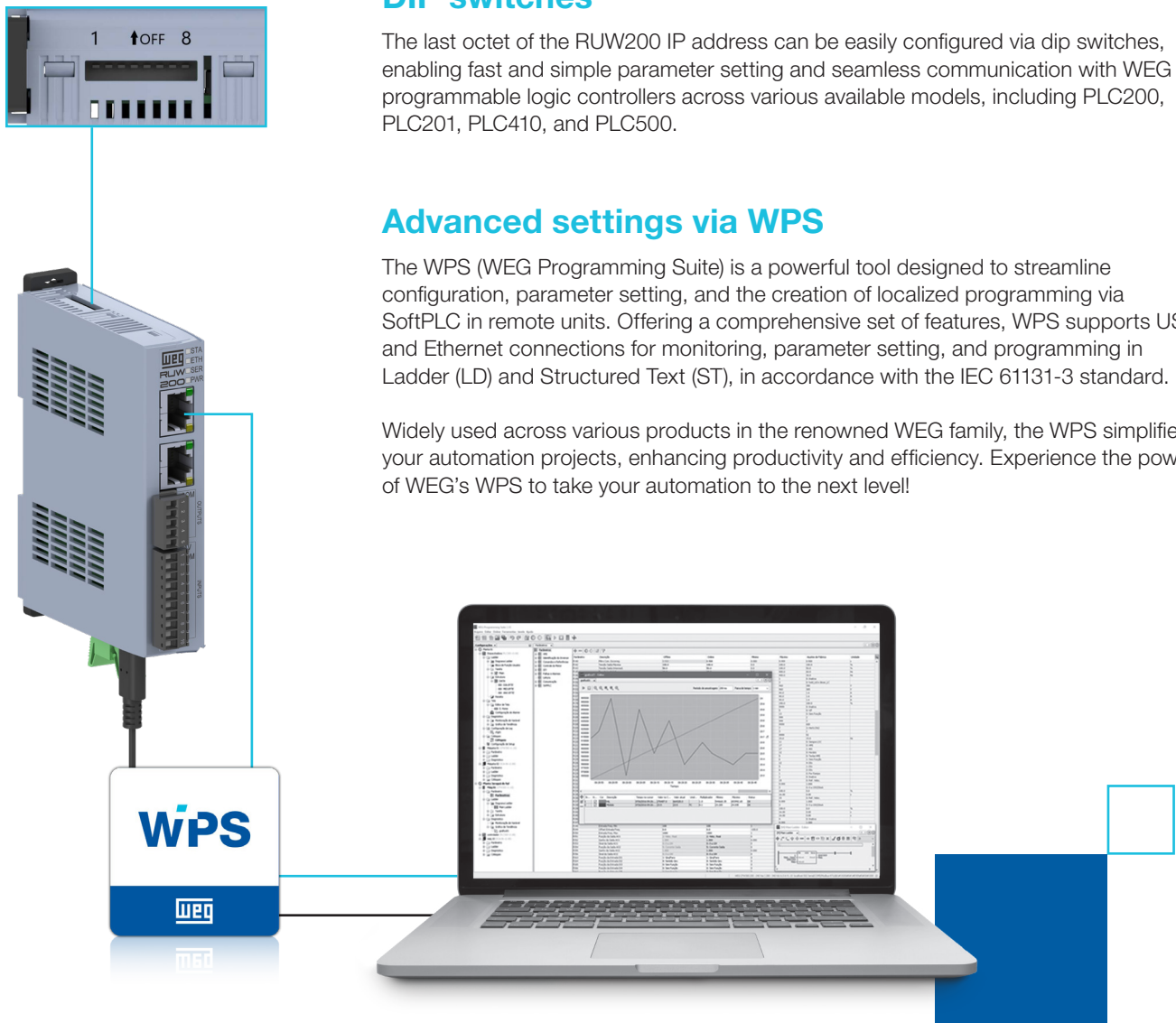
### DIP switches

The last octet of the RUW200 IP address can be easily configured via dip switches, enabling fast and simple parameter setting and seamless communication with WEG programmable logic controllers across various available models, including PLC200, PLC201, PLC410, and PLC500.

### Advanced settings via WPS

The WPS (WEG Programming Suite) is a powerful tool designed to streamline configuration, parameter setting, and the creation of localized programming via SoftPLC in remote units. Offering a comprehensive set of features, WPS supports USB and Ethernet connections for monitoring, parameter setting, and programming in Ladder (LD) and Structured Text (ST), in accordance with the IEC 61131-3 standard.

Widely used across various products in the renowned WEG family, the WPS simplifies your automation projects, enhancing productivity and efficiency. Experience the power of WEG's WPS to take your automation to the next level!



Note: 1) If you need to change any of the first three octets of the IP address (e.g., 192.168.1.x to 192.168.0.x), this must be done using the WPS configuration software. The DIP switches only allow modification of the last octet.

# Have more flexibility to develop your automation

The RUW200 remote unit was developed on the same platform that allows the interchangeability of the MOD expansion modules already used in the PLC410, PLC200 and PLC500 lines. That provides high flexibility and synergy between our product line, all of which follows the Plug & Play concept.

**Complete line of expansions**  
The same expansion modules used in the PLC200, PLC410 and PLC500 programmable controllers or in the RUW200 remote units.

**Expansion modules with numerous possibilities:**

- Thermocouple (J, K and T)
- RTD (Pt100 and Pt1000)
- Load cell
- Relay outputs
- Digital inputs and outputs
- Analog inputs and outputs

**Expansion port cover**  
Isolates the contacts from the external environment, increasing the connection's durability.

**Quick connectors**  
Power supply, inputs and outputs.

**Greater savings with a space-efficient installation**  
Expansion modules less than 1 inch wide

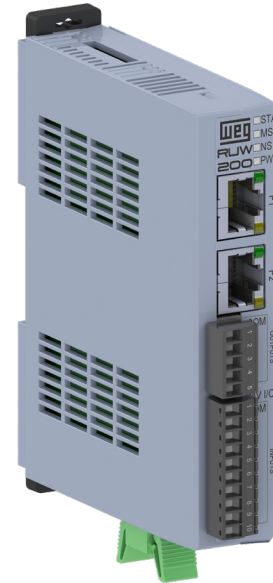
To learn more, access or [click here.](#)



# RUW200 connected to Industry 4.0

In the era of Industry 4.0, where productive flexibility, adaptability, big data and cloud computing are requirements for more efficient and reliable operation, programmable controllers are part of a fundamental ecosystem, where they are responsible for collecting data and sending it to the cloud service.

The RUW200 was developed to be easily integrated into cloud environments and features the MQTT protocol as factory standard. Thus, the manufacturing operation is integrated with operational data, creating operational intelligence.



## Main WEGnology characteristics

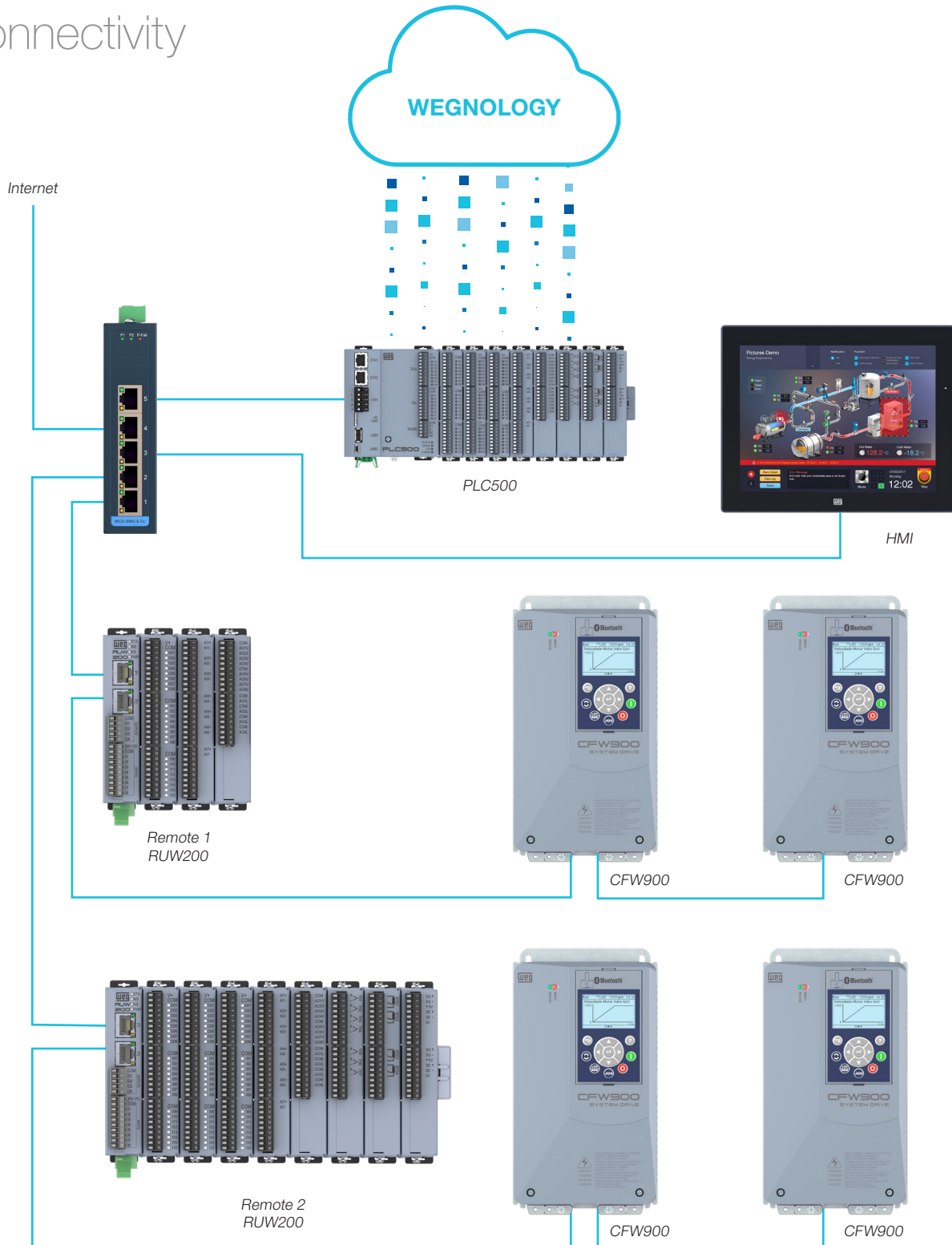
- Cloud-based solution: software always up-to-date, enabling updated information in real time, anywhere.
- Optimal use of resources.
- Reduced machine downtime and higher performance.
- Configurable and customizable dashboards and reports, with various graphic and analytical views.
- OEE monitoring and creation of KPIs.
- Collection, view and history of process and production data.
- Customizable anomaly alarms, which can be sent by email and SMS.
- Simplified machine location.
- Co-creation of applications.
- Integration with other platforms, such as ERP and MES.
- Creation of new business models for machine manufacturers: opportunity to sell service to end customers.
- Development of predictive maintenance and control strategies (connectivity with WEG Motor Scan).
- Monitoring of machine devices, such as sensors, PLCs, drives and operating interfaces.



# Increase your productivity with flexibility and high performance



## Connectivity

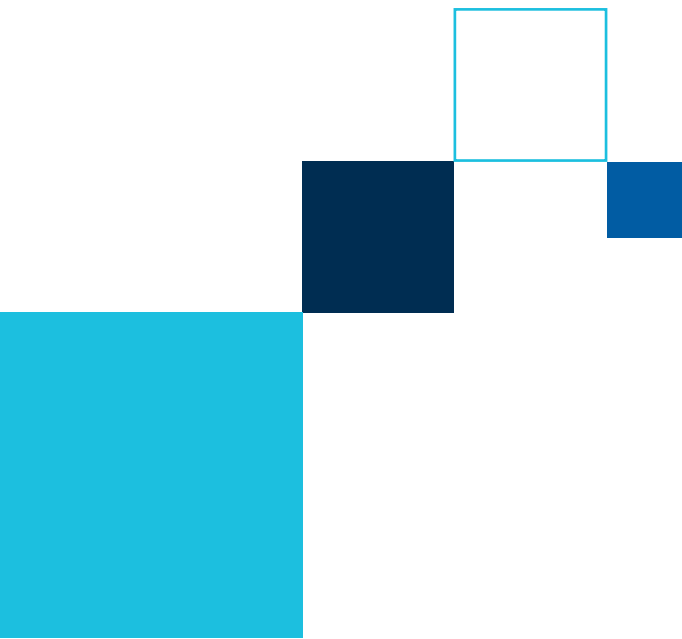
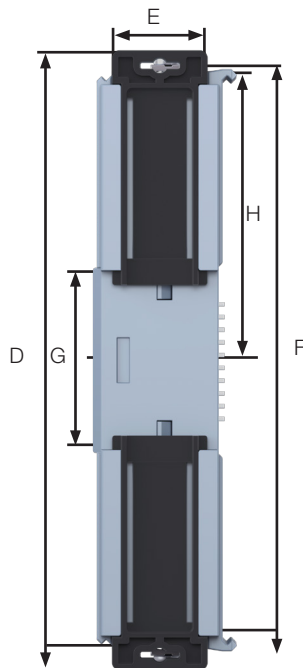
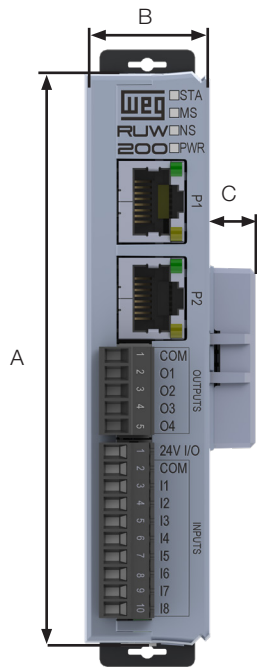


# Dimensions

## RUW200

### Basic units

Dimension reference	A	B	C	D	E	F	G	H	I
Dimension in mm (in)	113.6 (4.47)	25 (0.98)	9 (0.35)	133.6 (5.25)	18.75 (0.74)	117.1 (4.61)	35.5 (1.4)	56.8 (2.23)	98.2 (3.86)
Fixing screw	M3 Ø 3.1 (0.122)								



# Technical features

## RUW200

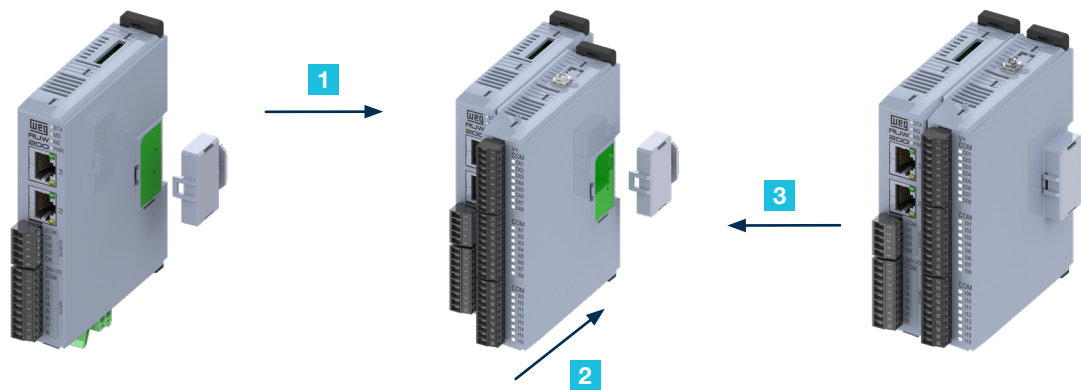
General technical characteristics		
Versions	RUW200	
Power supply	24 V <sub>DC</sub> (V min.: 20.4 V <sub>DC</sub> / V max.: 28.8 V <sub>DC</sub> ) Power source: minimum capacity recommended 1 A	
Communication ports	Ethernet	2x 10/100 port (RJ45) – MQTT (Pub/Sub) / EtherNet/IP (Adapter) / Modbus TCP (server) Firmware update / Parameter setting / Program transfer (PLC function)
	USB C	Firmware update / Parameter setting / Program transfer (PLC function)
Digital inputs	Fast	8 DI (configurable as 4 dual channel inputs up to 150 kHz)
	Type	PNP
	Maximum input voltage	+28.8 V
	Voltage levels for detection	High level: V <sub>in</sub> ≥ 10 V / Low level: V <sub>in</sub> ≤ 5 V
	Consumption	24 V: 0.7 mA
	Insulation voltage	500 V
	Max. number of DIs	200 points via expansion modules
Digital outputs	Type	4 DO (PNP)
	Recommended voltage	+24 V
	Maximum voltage	+28 V
	Maximum current per output	100 mA
	Max. number of DOs	196 points via expansion modules
Software	WPS®	
Cloud solutions	WEGnology / Cloud Environments	
Operating temperature	0 °C ~ 50 °C (32 °F ~ 122 °F)	
Storage temperature	-25 °C ~ 60 °C (-13 °F ~ 140 °F)	
Protection rating	IP20	
Pollution degree	2 (according to EN 50178 and UL 508C), with non-conductive pollution	
Altitude	1,000 m (3,300 ft). Above 1,000 m up to 4,000 m (3,300 ft to 13,200 ft), the output current must be derated by 1% for every 100 m (328 ft)	
Mounting	On DIN rail or on panel with screws	
Certifications	UL / CE	
Dimensions (H x W x D)	133.6 x 25 x 98.2 mm (4.72 x 0.98 x 3.86 in)	
Weight	0.350 kg (0.771 lb)	

# Simple and quick expansion module installation

## Connection of the expansion module

Connecting the expansion modules is quick and simple:

- 1** Remove the module cover.
- 2** Add the expansion module by sliding it in until it is fully aligned with the back.
- 3** Attach the cover to the last expansion module.



## Specifications

The user easily and quickly installs the expansion modules on the RUW200 through the Plug & Play concept. When the RUW200 is powered up, the electronic circuit identifies the number of connected expansions, the model and the firmware version of each one. They also receive an address according to their position so that it is possible to access them through the communication bus.

### Expansion units

Reference	Internal current consumption <sup>1)</sup> (mA)	Inputs					Outputs		
		Bidirectional digital	Voltage or current analog	J, K and T type thermocouple	Pt100 and Pt1000 type RTD	Load cells	Isolated digital PNP (500 mA)	Analog in voltage (0-10 V) or current (0 - 20 mA)	Analog in voltage (0 - 10 V)
MOD1.00-24DI	0	24	-	-	-	-	-	-	-
MOD1.10-24DO	0	-	-	-	-	-	24	-	-
MOD1.20-16DO8DI	0	8	-	-	-	-	16	-	-
MOD1.30-8DO16DI	0	16	-	-	-	-	8	-	-
MOD2.00-7AI	40	-	7	-	-	-	-	-	-
MOD3.00-8AOVI	150	-	-	-	-	-	-	4	4
MOD4.00-7TH	0	-	-	7	-	-	-	-	-
MOD5.00-4RTD	0	-	-	-	4	-	-	-	-
MOD6.00-2SG	30	-	-	-	-	2	-	-	-

Note: 1) The sum of internal current consumption of MOD modules is limited to 300 mA and with a maximum number of eight modules per RUW200.

# Technical characteristics - expansion units

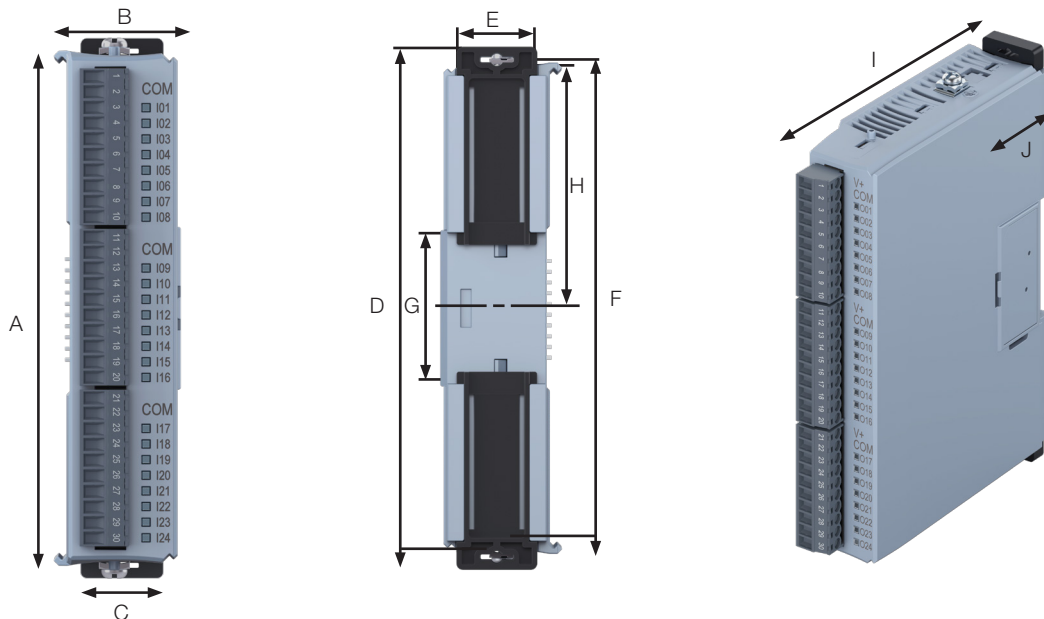
General technical characteristics		
Digital inputs	Type	Bidirectional
	Maximum input voltage	+28.8 V
	Voltage levels for detection	High level: $V_{in} \geq 10\text{ V}$ / Low level: $V_{in} \leq 3\text{ V}$
	Consumption	24 V: 10 mA
	Insulation voltage	500 V
Analog inputs	Type	Current or voltage input
	Voltage range	0 to 10 V differential
	Common mode voltage limits	-10 to 10 V
	Current range	0 to 20 mA
	Resolution	24 Bits
Digital outputs	Type	PNP
	Recommended voltage	+24 V
	Maximum voltage	+28 V
	Max. current per output	500 mA
Current analog outputs	Max. current	20 mA
	Maximum load	500 $\Omega$
	Resolution	16 Bits
Thermocouple inputs	Type	J, K and T
RTD input	Type	Pt100 and Pt1000 with two or three wires <sup>1)</sup>
Load cell input	Type	4 or 6 wires
Relay output	Type	Isolated outputs
	Maximum load	7 A - 250 V <sub>ac</sub> , resistive load / 5 A - 30 V <sub>dc</sub> , resistive load
Operating temperature		0 °C to 45 °C
Air relative humidity		Air relative humidity: 5% to 90% non-condensing
Protection rating		IP20
Pollution degree		2 (according to EN 50178 and UL 508C), with non-conductive pollution
Altitude		1,000 m (3,300 ft). Above 1,000 m up to 4,000 m (3,300 ft to 13,200 ft), the output current must be derated by 1% for every 100 m (328 ft) above 1,000 m (3,300 ft)

Note: 1) A three-wire model is required to perform the wire resistance compensation.

## Dimensions

### Expansions

Dimension reference	A	B	C	D	E	F	G	H	I	J
Dimension in mm (in)	115.7 (4.56)	25 (0.98)	19 (0.74)	123.1 (4.84)	19 (0.74)	117.1 (4.61)	35.5 (1.4)	57.9 (2.28)	89.4 (3.52)	31.6 (1.25)
Fixing screw	M3 Ø 3.1 (0.122)									



# Global presence is essential, as much as understanding your needs.

## Global Presence

With more than 47,000 employees worldwide, WEG is one of the largest electric motors, electronic equipments and systems manufacturers. We are constantly expanding our portfolio of products and services with expertise and market knowledge. We create integrated and customized solutions ranging from innovative products to complete after-sales service.

WEG's know-how guarantees the ***RUW200 – Remote Unit*** is the right choice for your application and business, assuring safety, efficiency and reliability.



**Availability** is having a global support network



**Partnership** is creating solutions that suits your needs



**Competitiveness** is combining technology and innovation

## Learn More

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50161445 | Rev: 00 | Date (m/y): 12/2025

The values shown are subject to change without prior notice.  
The information contained is reference values.