CP4100 3-Phase Plug-In

AC Charging Station for Business

Specifications and Ordering Information

February 2020

Built with the latest ChargePoint® technology, this new range of all-in-one charging solutions is designed for businesses, fleets and other organisations offering electric vehicle (EV) charging as a facility or service for employees and customers.

- ChargePoint cloud services make managing stations effortless with a graphical online dashboard that offers instant insights. Automatic “over-the-air” upgrades deliver the latest features that make charging simple for EV drivers.
- Driver-friendly user interface with full-motion colour display informs drivers and supports dynamic updates of customised, branded video content.
- Stations are available in pedestal and wall mount configurations for easy installation anywhere.
- Innovative design allows one product to serve multiple use cases: an installation wizard configures stations out of the box for 1 or 2 output ports at 22,2 kW, 11,1 kW, 7.4 kW or 3.7 kW.
- Authentication and payment options include RFID, NFC, phone call, web, mobile app and tap to charge (Apple and Android devices).
- Intelligent power management allows two charging ports to share a single circuit, doubling the number of parking spaces served; existing single port stations can be upgraded to dual port stations without requiring additional electrical services.
- Durable high-strength construction and hardened electronics withstand climate extremes and physical abuse.
- Charges every EV and plug-in hybrid EV; tested with Mercedes C350e/GLC350e, Renault ZOE, Volvo XC90 T8, BMW i3, Nissan LEAF, Tesla Models S and X, Kia Soul, Hyundai Ioniq, Volkswagen Passat/Golf GTE and many others.

Superior Support Options

Enhanced maintenance and management including on-site labour can be obtained by purchasing a ChargePoint Assure Support plan including:

- Parts, on-site labour and orchestration of repairs by expert support specialists
- Proactive monitoring, regular reports and unlimited changes to station policies
- One business day response to requests and 98% annual uptime guarantee
- 24/7 driver support
- Monthly summary and quarterly detailed performance and utilisation reports
- Labour coverage for damage caused by vandalism or accidents

Ordering Information

The order codes below represent specific product configurations. Other product options are available. Please contact ChargePoint Sales for information and order codes.

Hardware

Description		Order Code
Model	Single Port Wall Mount 3-Phase 32A Type 2 Socket (max 22,2 kW per port)	CP4113
	Dual Port Wall Mount 3-Phase 32A Type 2 Sockets (max 22,2 kW per port)	CP4123
	Single Port Pedestal Mount 3-Phase 32A Type 2 Socket (max 22,2 kW per port)	CP4111
	Dual Port Pedestal Mount 3-Phase 32A Type 2 Sockets (max 22,2 kW per port)	CP4121
Misc	Universal Mounting Kit*	CP4100-UMK

NOTE: The Universal Mounting Kit is compatible with any ChargePoint hardware product requiring a foundation before mounting to the ground

Software and Services

Description	Order Code
ChargePoint Commercial Cloud Plan	CPCLD-COMMERCIAL- n[1]
ChargePoint Assure	CP4100-ASSURE - n[2]
Station Activation and Configuration	CPSUPPORT-ACTIVE
ChargePoint Site Validation	CPSUPPORT-SITEVALID

[1] Substitute n for desired years of service (1, 2, 3, 4 or 5 years).

[2] Substitute n for the duration of the coverage (1, 2, 3 or 4 years).

Order Code Information

If ordering this...	...the order code is
Dual Port Pedestal Mount Type 2 Sockets ChargePoint Commercial Cloud Plan, 3 Year Subscription includes: • Network Connection • Ongoing Station Software Updates and Station Inventory • ChargePoint Site Validation • 2 Years of Assure Coverage	• CP4121 • CPCLD-COMMERCIAL-3 • CPSUPPORT-SITEVALID • CP4100-ASSURE2
Single Port Wall Mount Type 2 with Shuttered Socket ChargePoint Commercial Cloud Plan, 5 Year Subscription includes: • Network Connection • Ongoing Station Software Updates and Station Inventory • ChargePoint Site Validation • 4 Years of Assure Coverage • Station Activation and Configuration by ChargePoint Support	• CP4113-SH • CPCLD-COMMERCIAL-5 • CPSUPPORT-SITEVALID • CP4123-ASSURE4 • CPSUPPORT-ACTIVE

ChargePoint as a Service (CPaaS)

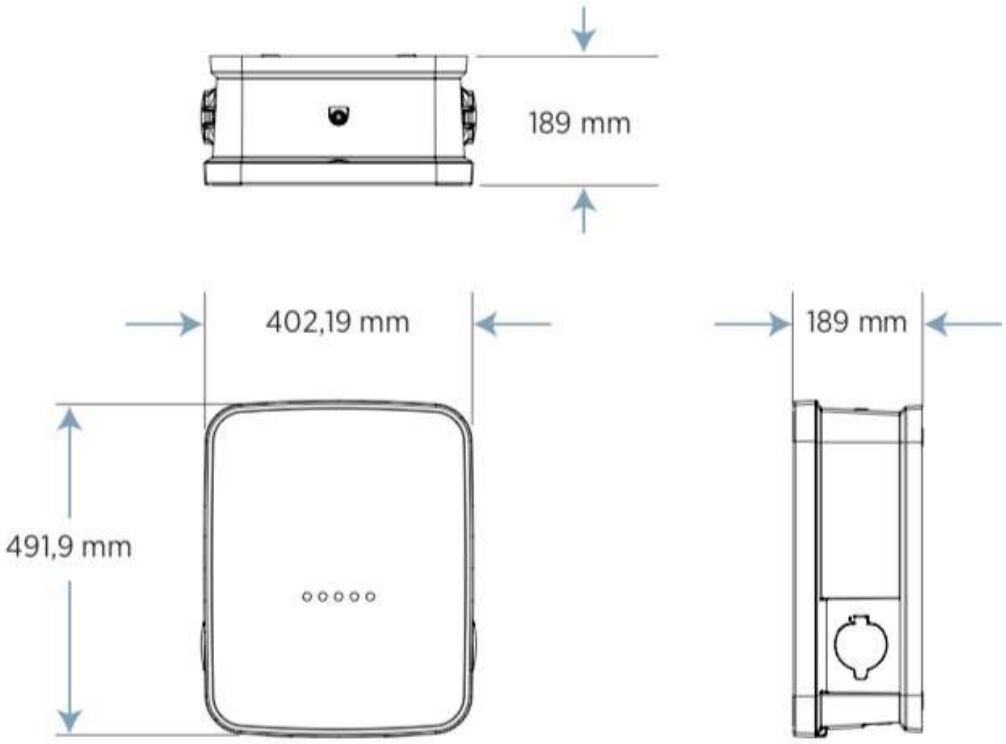
The order code sequence is: CPAAS-*n**-Model

Integrated technology and Service Bundle	Order Code
n years integrated technology and service bundle subscription to ChargePoint as a Service for a CP4113 station. CPaaS (TM) includes activation, station configuration, Commercial Cloud Plan and station protection via Assure.	CPAAS-n-CP4113
n years integrated technology and service bundle subscription to ChargePoint as a Service for a CP4123station. CPaaS (TM) includes activation, station configuration, Commercial Cloud Plan and station protection via Assure.	CPAAS-n-CP4123
n years integrated technology and service bundle subscription to ChargePoint as a Service for a CP4111 station. CPaaS (TM) includes activation, station configuration, Commercial Cloud Plan and station protection via Assure.	CPAAS-n-CP4111
n years integrated technology and service bundle subscription to ChargePoint as a Service for a CP4121 station. CPaaS (TM) includes activation, station configuration, Commercial Cloud Plan and station protection via Assure.	CPAAS-n- CP4121

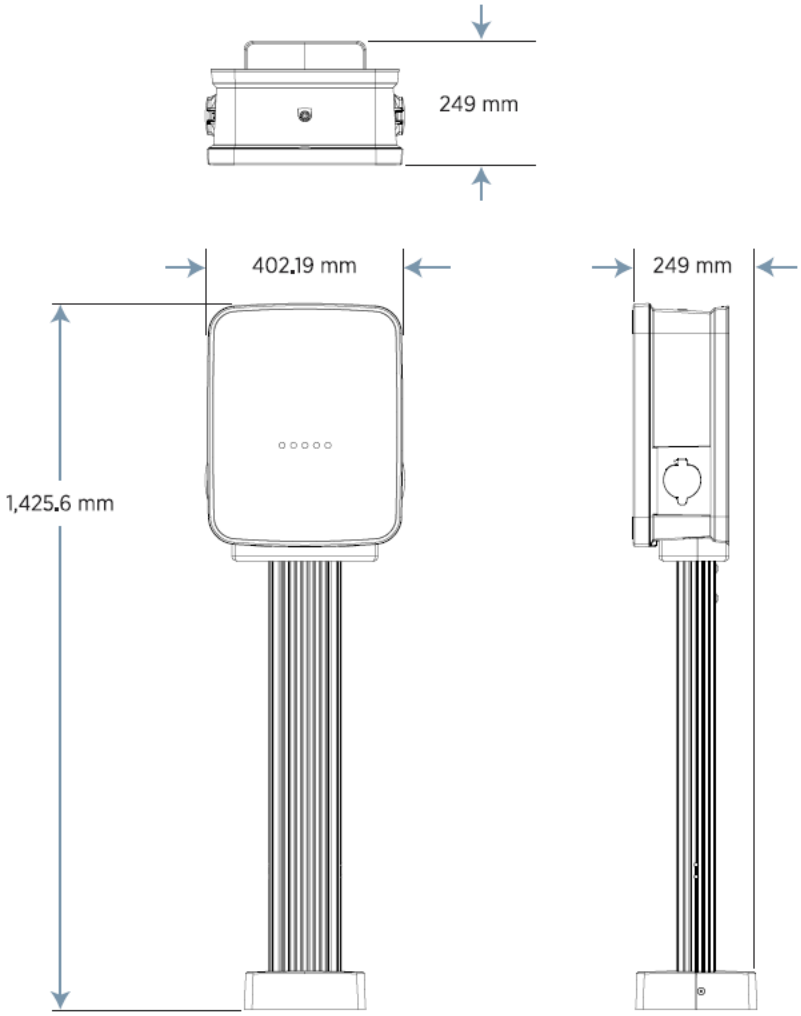
*Substitute n for desired years of service (3 or 5 years).

Architectural Drawings (Dimensions)

Wall Mount - CP41x3



Pedestal Mount - CP41x1



General Specifications

Electrical Input

Electrical Input	Single Port			Dual Port		
	Input Current	Input Power Connection	Required Service Panel Breaker	Input Current	Input Power Connection	Required Service Panel Breaker
Circuit Shared* 43, 6 kW	n/a	n/a	n/a	3Ø 63A	One independent 3Ø 63A branch circuits	63A 4 pole
Standard 43, 6 kW	n/a	n/a	n/a	3Ø 32A x 2	Two independent 3Ø 32A branch circuits	32A 4 pole x 2
Circuit Shared* 22, 2 kW	n/a	n/a	n/a	3Ø 32A	One 3Ø 32A branch circuit	32A 4 pole
Power Select 22, 2 kW	3Ø 32A	One 3Ø 32A branch circuit	32A 4 pole	3Ø 16A x 2	Two independent 3Ø 16A branch circuits	16A 4 pole x 2
Power Select 11, 1 kW Circuit Shared*	n/a	n/a	n/a	3Ø 16A	One 3Ø 16A branch circuit	16A 4 pole
Power Select 11, 1 kW	3Ø 16A	One 3Ø 16A branch circuit	16A 4 pole	n/a	n/a	n/a
Power Select 14, 8 kW	n/a	n/a	n/a	1Ø 32A x 2	Two independent 1Ø 32A branch circuits	32A 2 pole x 2
Power Select 7, 4 kW Circuit Shared*	n/a	n/a	n/a	1Ø 32A	One 1Ø 32A branch circuit	32A 2 pole
Power Select 7, 4 kW	1Ø 32A	One 1Ø 32A branch circuit	32A 2 pole	1Ø 16A x 2	Two independent 1Ø 16A branch circuits	16A 2 pole
Power Select 3, 7 kW	1Ø 16A	One 1Ø 16A branch circuit	16A 2 pole	n/a	n/a	n/a
Service Panel RCD	Install guide provides guidance on use of panel RCD and MCB					
Wiring – Standard	5-wire (L1, L2, L3, N, Earth)			2 x 5-wire (L1, L2, L3, N, Earth)		

Wiring – Circuit Share	n/a	1 x 5-wire (L1, L2, L3, N, Earth)30
Station Power	8 W typical (standby), 15 W maximum (operation)	
Input Phase Balancing*	To reduce grid asynchronicity when charging single-phase cars, we support Phase Balancing for dual port stations at installation	

*Circuit Sharing and/or Phase Balancing require the installation of the included Power Management Kit.

Electrical Input

Electrical Output (Power ratings depend on installation configuration)	Single Port	Dual Port
Circuit Shared* 43, 6 kW	n/a	22, 2 kW (3Ø 400V AC @ 32A) x 2
Standard 43, 6 kW	n/a	22, 2 kW (3Ø 400V AC @ 32A) x 2
Power Select 22, 2 kW Circuit Shared*	n/a	22, 2 kW (3Ø 400V AC @ 32A) x 1 or 11, 1 kW (3Ø 400V AC @ 16A) x 2
Power Select 22, 2 kW	22, 2 kW (3Ø 400V AC @ 32A) x 1	11, 1 kW (3Ø 400V AC @ 16A) x 2
Power Select 11, 1 kW Circuit Shared*	n/a	11,1 kW (3Ø 400V AC @ 16A) x 1 or 5,5 kW (3Ø 400V AC @ 8A) x 2
Power Select 11, 1 kW	11, 1 kW (3Ø 400V AC @ 16A) x 1	n/a
Power Select 14, 8 kW	n/a	7, 4 kW (1Ø 230V AC @ 32A) x 2
Power Select 7, 4 kW Circuit Shared*	n/a	7, 4 kW (1Ø 230V AC @ 32A) x 1 or 3, 7 kW (1Ø 230V AC @ 16A) x 2
Power Select 7, 4 kW	7, 4 kW (1Ø 230V AC @ 32A) x 1	3, 7 kW (1Ø 230V AC @ 16A) x 2
Power Select 3, 7 kW	3, 7 kW (1Ø 230V AC @ 16A) x 1	n/a

*Circuit Sharing and/or Phase Balancing require the installation of the included Power Management Kit.

Functional Interfaces

Plug Type	IEC 62196-2 Type 2 (32A) (Shuttered sockets available, indicated by “-SH”)
LCD Display	145 mm (5.7 in) full colour, 640 x 480, 30 fps full motion video, active matrix, UV protected
User Interface	Capacitive touch buttons
Card Reader	RFID: ISO 15693, ISO 14443, NEMA EVSE 1.2-2015 (UR) Tap to Charge (NFC on Apple & Android for supported countries)
Locking Holster	Yes

Safety and Connectivity Features

RCD	30 mA, Type A
DC Fault Current Detection	Electronic, IΔn DC ≥ 6 mA
Plug-Out Detection	Yes
Power Measurement Accuracy	According to MID requirements
Power Report/Store Interval	15 minute, aligned to hour
Wide Area Network	3G GSM

Safety and Operational Ratings

Station Enclosure Rating	IP 54, IK8
Safety Compliance	IEC 61851-1 (ed. 3.0, 2017), LVD 2014/35/EU
Station Surge Protection	4 kV @ 3,000A. In geographic areas subject to frequent thunderstorms, supplemental surge protection at the service panel is recommended.
EMC Compliance	EMCD 2014/30/EU, RED 2014/53/EU
Storage Temperature	-40°C to 60°C
Operating Temperature	-30°C to 50°C; output power derating may apply
Operating Humidity	Up to 85% @ 50°C non-condensing
Non-Operating Humidity	Up to 95% @ 50°C non-condensing

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