# EVlink™ Electric Vehicle Charging Solutions

## Powering the Future of Sustainable Mobility

Catalog
2800CT1001

2014
Class 2800

**CONTENTS**



Schneider Electric™

# Description

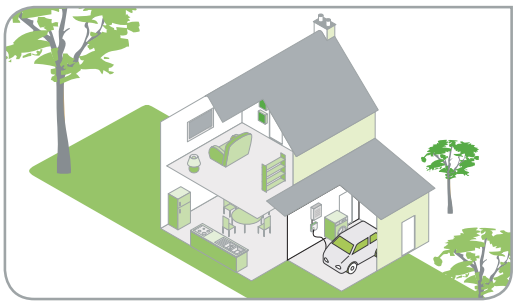
## Smart Charging, Smart Savings, Smart Grid

EVlink Electric Vehicle (EV) charging stations by Schneider Electric offer convenient ways for EV drivers to get charged at home, at work, and in all other Public & Private locations.

EVlink is durable and "smart" with features that provide an enhanced charging experience for both the station owners and drivers. Our EVlink EV chargers meet Society of Automotive Engineers standards (SAE J1772) and have been tested for auto and grid interoperability by major Auto Original Equipment Manufacturers and utilities.

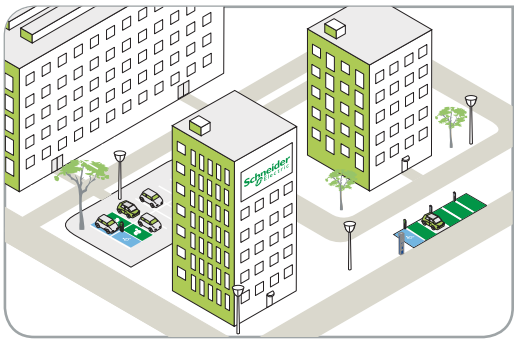
Our team of EVlink experts are dedicated to saving you time and resources with EV readiness planning, local and nationwide site auditing and project management, enabling an EV charging infrastructure that is sustainable, reliable and scalable.

To discover the power of charging, call us at 1- 888-778-2733. Select Option 1 "Technical Support", then Option 1 again "Distribution" products, and then Option 6 "Other".



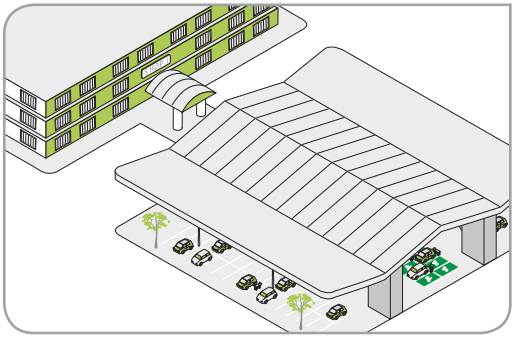
## Home EV Charging

**EVlink Residential** Charging Stations provide a convenient way to charge at home. Rated for indoor safety, the intuitive design features a delay timer that you can set-and-go to save money, time and energy (kWh). Each station comes complete with a separate docking bracket for additional flexibility in installation and usage, and a customized skin that allows you to personalize your charger with your own unique style.



## Commercial EV Charging

**EVlink Basic** charging stations offer an easy way to charge away from home. Rated for outdoor durability, its minimalistic design features access control with or without RFID card usage. EVlink Commercial stations are offered as Wall or Pedestal mount, making them adaptable for all environments. Pedestal models are available with single or dual connectors (J1772 plug) for additional accessibility and simultaneous EV charging.



**EVlink Cloud Connected** charging stations empower you with the visibility, control and data insights you need to effectively implement and manage your EV charging infrastructure. Through its connection to the ChargePoint network, this station offers simplified billing and payment processing, remote monitoring and diagnostics, rate scheduling, and utilization analysis. Driver benefits include station locator mobile app, large LCD screen displaying step-by-step charging instructions, and hotline support available 24/7.

**Tiered Service Packages** offer ongoing preventative maintenance, extended warranty, and critical turnaround services and expedited parts replacement.

# Outdoor Cloud Connected

## Features

**Network Connectivity (gateway unit, two antennae):**

- Wireless communication to server via cellular network
- IEEE 802.15.4 wireless communication with non-gateway units
- Station location and occupancy status via network
- Remote monitoring of status and power usage
- Enables remote maintenance services

**NOTE:** At least one gateway unit is required for each cluster of Cloud Connected charging stations within a 150 ft. line of sight. A gateway unit establishes a cellular connection for each non-gateway (Cloud Connected) unit on a cluster. A gateway unit is required for a single-unit installation.

**Interface:**

- Backlit color LCD screen displays charging instructions, charging status, and usage fees
- Red indicator lights on front panel for system detected faults

**Authentication:**

- ChargePoint® card or Contactless credit card
- Track customer usage history
- Optional payment by time/energy usage

**Enclosure and Mounting:**

- Metallic enclosure
- Metallic mounting pedestal

**NOTE: Use on vehicles with an SAE J1772 compliant connector with silver plated contacts only. Go to www.schneiderelectric.us/sites/us/en/support/ documents-downloads.page or call 1-888-778-2733 for a list of compatible vehicles.**

**NOTE: Service plan required. See Page 6 for details.**

**Network Connectivity (non-gateway units, single antenna):**

- IEEE 802.15.4 wireless communication with gateway unit
- 150 ft (45 m) near line of sight communication range

**Holders for Connector and Cable:**

- Support and help organize cables
- Connector storage dock
- Integral with the enclosure

**Connector and Cable:**

- Complies with SAE J1772
- Cable length: 18 ft. (5.5 meter)

**Protection:**

- Integral Ground Fault Protection at 20 mA
- Ground fault function tested before each charge cycle begins
- Auto restart after ground fault or main power loss


**Commercial Applications**

**NOTE:** Dual gateway charging unit shown— see Table 1 for single charging unit and non-gateway options.

## Catalog Numbers

**Table 1: Outdoor Cloud Connected Charging Stations[1]**

| Catalog Number | Unit Type | Input Voltage System | Output Current | Mounting Type | Charging Units | Country |
|---|---|---|---|---|---|---|
| EV230PSRACG | Gateway | 208–240 Vac | 30 A[2] | Pedestal | Single | US only |
| EV230PSRACNG | Non-Gateway | | | Pedestal | | US and Canada |
| EV230PDRACG | Gateway | | | Pedestal | Dual | US only |
| EV230PDRACNG | Non-Gateway | | | Pedestal | | US and Canada |
| EV230PSRACGC | Gateway | | | Pedestal | Single | Canada only |
| EV230PDRACGC | | | | Pedestal | Dual | Canada only |
| EV230WDRACG | | | | Wall | | US only |
| EV230WDRACNG | Non-Gateway | | | Wall | | US and Canada |
| EV230WDRACGC | Gateway | | | Wall | | Canada only |

1 Service plan required. See Page 6 for details.

2 Feeder circuit breaker size = 40 A.

## Technical Specifications

Single Cloud Connected Unit

Dual Cloud Connected Unit

**Outdoor Cloud Connected Pedestal-Mount Units**

**Outdoor Cloud Connected Wall Mounted Unit**

**Table 2: Outdoor Cloud Connected Pedestal-Mount Charging Stations**

| Power Specifications (Each charging unit) | |
|---|---|
| Input Power | 208–240 Vac, 30 A, single phase, 60 Hz |
| Input Power Connection | Line 1, Line 2, and Ground |
| Feeder Circuit Breaker | 2-pole, 40 A, non-GFCI type |
| Output Power | 208–240 Vac, 30 A |

| Physical Specifications | | |
|---|---|---|
| Enclosure Type | Type 3R | |
| Enclosure Dimensions | See dimensions on Page 5 | |
| Enclosure Mounting | Pedestal | |
| Cable Type | SAE J1772 | |
| Cable Length | 18 ft. (5.5 m) | |
| Cable Management | Non-retractable, integral with the enclosure | |
| Unit Options / Shipping Weights | Single networked unit (gateway)<br>Single networked unit (non-gateway) | 101 lbs.<br>(45.8 kg) |
| | Dual networked unit (gateway)<br>Dual networked unit (non-gateway) | 115 lbs.<br>(52 kg) |

| User Interface | |
|---|---|
| Charging Instructions and Status | Backlit LCD color display |
| Error Messages | Backlit LCD color display |
| System Detected Fault | Red indicator light(s) on front panel |

| Authentication | |
|---|---|
| Option 1 | ChargePoint card |
| Option 2 | Contactless Credit card |
| Programming | ChargePoint cellular network system |

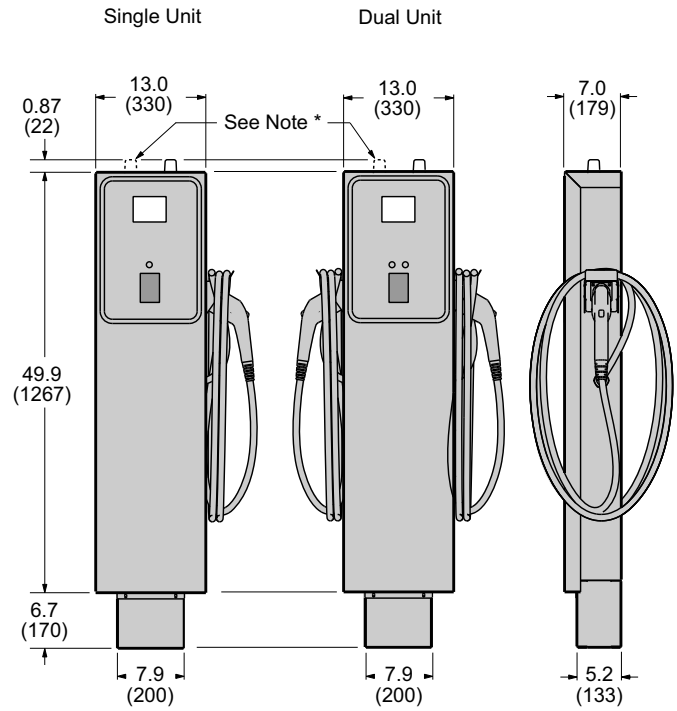
| Protection | |
|---|---|
| Ground Fault Protection | Integral, CCID 20 mA, auto reset |
| Ground Fault Protection System Test | Automatic test at the beginning of each charge cycle |

| Environmental | |
|---|---|
| Operating Temperature | -22°F to 104°F (-30°C to 40°C) |
| Electro-static Discharge | 15 kV open air, 8 kV contact |
| Surge | 6 kV |
| Radiated Immunity | 20 V/m |
| Conducted Immunity | 20 V |
| Electrical Fast Transient/Burst (EFTB) | 2 kV |
| Emissions | FCC Class A |

| Standards Compliance |
|---|
| NEC Article 625 |
| SAE J1772 |
| UL 2594 |
| CSA 22.2 |

## Dimensions—Outdoor Cloud Connected Pedestal-Mount Charging Stations

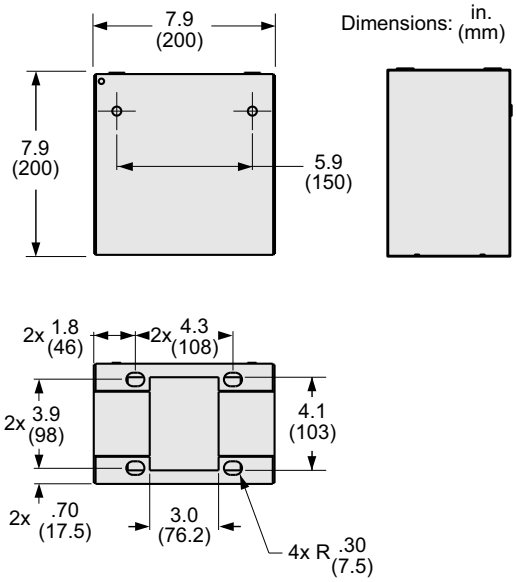
**Figure 1: Cloud Connected Pedestal-Mount Charging Stations**




* NOTE: Left antenna is present on gateway units only

Dimensions: in. (mm)

**Figure 2: Pedestal Base for Outdoor Charging Stations**



# Service Plans

Service plans provide Cloud Connected (Networked) station owners the ability to remotely manage their EV charging stations with features including flexible management tools, in-depth data analysis, payment processing, and 24/7 driver support.

**Service plans are required with every purchase of a Cloud Connected EVlink unit.**

One service plan per cord set is needed. For example, a dual pedestal unit— which has two cord sets—would require two service plans.

## Types of Plans

There are six types of Commercial Service Plans offered:

- Use EV charging to attract new customers to your business, generate a new source of revenue and give your clientele another reason to frequent your parking lot.

| Catalog Number[1] | Type | Service Length | Features |
|---|---|---|---|
| EVNETCOMM1 | Commercial | 1 year | • Set pricing flexibility<br>• Provide multiple payment options<br>• Collect payment automatically<br>• Offer reservations<br>• Advertise<br>• Report revenue |
| EVNETCOMM2 | | 2 year | |
| EVNETCOMM3 | | 3 year | |
| EVNETSP1 | Service Provider | 1 Year | **All capabilities of Commercial, plus:**<br>• Create driver-branded website<br>• Manage energy load<br>• Analyze driver use patterns |
| EVNETSP2 | | 2 Year | |
| EVNETSP3 | | 3 Year | |

1 Required with purchase of Cloud Connected units.

## Accessories

| Catalog Number | Description |
|---|---|
| EVNETKF50 | ChargePoint cards |

# Outdoor Charging Stations—Basic

## Wall-Mount

### Features

**Interface:**

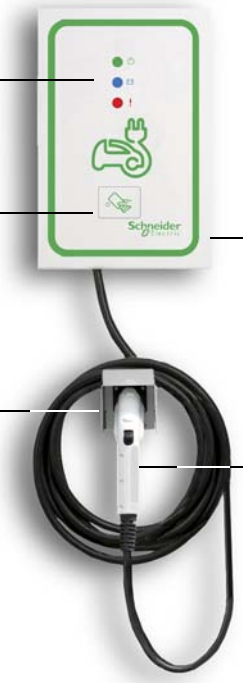
- Power status
- Charge indicator
- System detected fault indicator

**Authentication:**

- Localized RFID solution (optional)

**Cable Holder:**

- Connector dock
- Supports and helps organize the cable
- Independently mounted from enclosure



**Protection:**

- Integral Ground Fault Protection at 20 mA
- Ground fault function tested before each charge cycle begins
- Auto restart after ground fault or main power loss

**Enclosure:**

- Metallic enclosure
- Indoor/outdoor wall-mount

**Connector and Cord:**

- Complies with SAE J1772
- Cable length: 18 ft. (5.5 meter)

**Outdoor Wall-Mount Charging Station**

Residential and Commercial Applications

**NOTE: Use on vehicles with an SAE J1772 compliant connector with silver plated contacts only. Go to www.schneiderelectric. us/sites/us/en/support/documents-downloads.page or call 1-888-778-2733 for a list of compatible vehicles.**

### Catalog Numbers

**Table 3: Outdoor Charging Stations—Wall-Mount**

| Catalog Number | Input Voltage System | Output Current | Mounting Type | Charging Units | Application | Features |
|---|---|---|---|---|---|---|
| EV230WSR | 208–240 Vac | 30 A[1] | Wall | Single | Indoor/Outdoor | — |
| EV230WSRR | 208–240 Vac | 30 A[1] | Wall | Single | Indoor/Outdoor | RFID (basic) |

1 Feeder circuit breaker size = 40 A.

# Outdoor Basic Pedestal-Mount

## Features

**Interface:**

- Power status
- Charge indicator
- System detected fault indicator

**Authentication:**

Localized RFID solution (optional)

**Connector and Cable:**

- Complies with SAE J1772
- Cable length: 18 ft. (5.5 meter)

**Enclosure and Mounting:**

- Metallic enclosure
- Metallic mounting pedestal


**Holders for Connector and Cable:**

- Support and help organize cables
- Connector storage dock
- Integral with the enclosure

**Protection:**

- Integral Ground Fault Protection at 20 mA
- Ground fault function tested before each charge cycle begins
- Auto restart after ground fault or main power loss

**NOTE:** Dual charging unit shown— see Table 4 for single charging unit options

**Commercial Applications**

**NOTE: Use on vehicles with an SAE J1772 compliant connector with silver plated contacts only. Go to www.schneiderelectric.us/sites/us/en/support/ documents-downloads.page or call 1-888-778-2733 for a list of compatible vehicles.**

## Catalog Numbers

**Table 4: Outdoor Charging Stations—Pedestal-Mount**

| Catalog Number | Input Voltage System | Output Current | Mounting Type | Charging Units | Application | Authentication |
|---|---|---|---|---|---|---|
| EV230PSR | 208–240 Vac | 30 A[1] | Pedestal | Single | Outdoor | — |
| EV230PDR | | | | Dual | | — |
| EV230PSRR | | | | Single | | RFID (basic) |
| EV230PDRR | | | | Dual | | RFID (basic) |

1 Feeder circuit breaker size = 40 A per charging port.

**NOTE:** See page 14 for required accessories.

## Technical Specifications

**Outdoor Basic Wall-Mount**

Single Basic Unit

Dual Basic Unit

**Outdoor Basic Pedestal-Mount Units**

**Table 5: Outdoor Basic Wall-Mount and Pedestal-Mount Charging Stations**

| Power Specifications (Each charging unit) | |
|---|---|
| Input Power | 208–240 Vac, 30 A, single phase, 60 Hz |
| Input Power Connection | Line 1, Line 2, and Ground |
| Feeder Circuit Breaker | 2-pole, 40 A, non-GFCI type |
| Output Power | 208–240 Vac, 30 A |

| Physical Specifications | | |
|---|---|---|
| Enclosure Type | Type 3R | |
| Enclosure Dimensions | See dimensions on Page 10 | |
| Enclosure Mounting | Wall or Pedestal | |
| Cable Type | SAE J1772 | |
| Cable Length | 18 ft. (5.5 m) | |
| Cable Management | Non-retractable, integral with the enclosure | |
| Unit Options / Shipping Weights | Single unit (Wall-mount) | 38 lbs. (17 kg) |
| | Single unit (Pedestal-mount) | 92 lbs. (42 kg) |
| | Dual unit (Pedestal-mount) | 106 lbs. (48 kg) |

| User Interface | |
|---|---|
| Power Available | Status indicator |
| Charging | Blinking blue indicator |
| System Detected Fault | Red status indicator |

| Authentication | |
|---|---|
| Type | Basic RFID authentication card |
| Programming | Radio frequency remote control |

| Protection | |
|---|---|
| Ground Fault Protection | Integral, CCID 20 mA, auto reset |
| Ground Fault Protection System Test | Automatic test at the beginning of each charge cycle |

| Environmental | |
|---|---|
| Operating Temperature | -22°F to 131°F (-30°C to 55°C) |
| Electro-static Discharge | 15 kV open air, 8 kV contact |
| Surge | 6 kV |
| Radiated Immunity | 20 V/m |
| Conducted Immunity | 20 V |
| Electrical Fast Transient/Burst (EFTB) | 2 kV |
| Emissions | FCC Class B |

| Standards Compliance |
|---|
| NEC Article 625 |
| SAE J1772 |
| UL 2594 |
| CSA 22.2 |

**Figure 3: Outdoor Wall-Mount Charging Station**

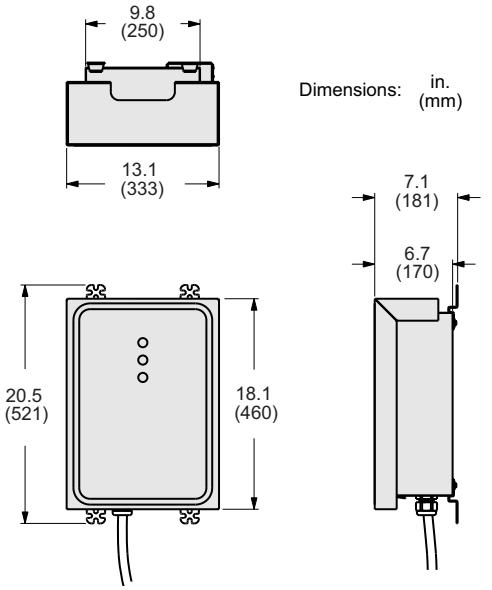



**Figure 4: Wall-Mount Cable Bracket with Connector Dock**

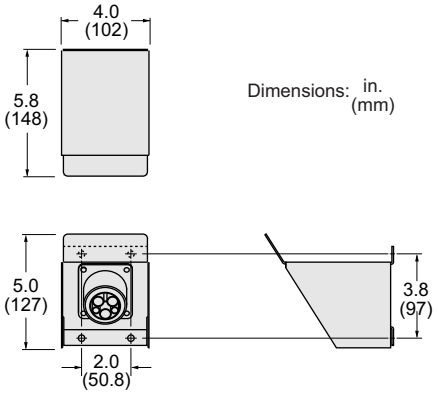
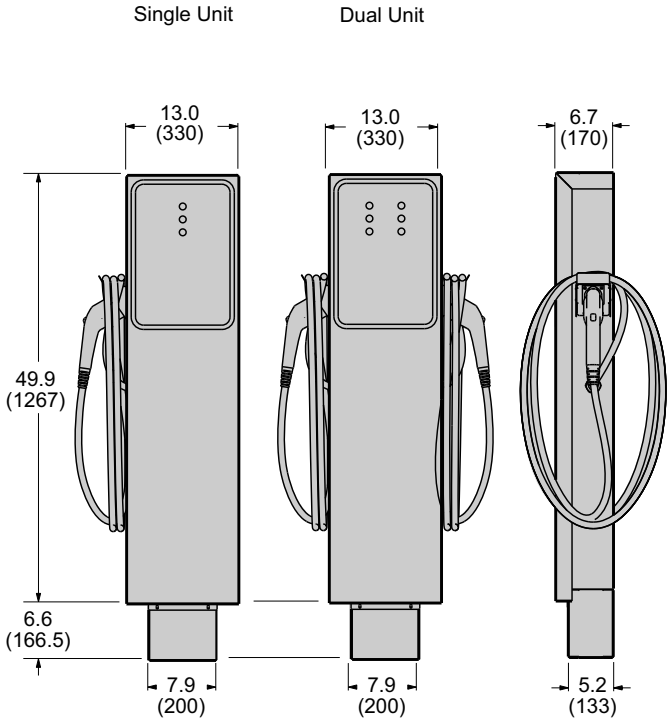



**Figure 5: Basic Pedestal-Mount Charging Stations**



# Residential Charging Stations

## Features

**Interface:**

- Segmented charge and delay charge progress indicator
- Stop Button and Indicator
- Power status and system detected fault indicator
- Delay button and indicator

**Enclosure:**

- Non-metallic
- Indoor wall-mount (stud, drywall, or masonry wall)
- Personalization available with free skin

**Protection:**

- Integral Ground Fault Protection:
  — EV230WS 20 mA
- Ground fault function tested before each charge cycle begins
- Auto restart after ground fault or main power loss

**Cable Holder:**

- Supports and helps organize the cable
- Independently mounted from enclosure

**Connector and Cord:**

- Complies with SAE J1772
- Cable length: 18 ft. (5.5 meter)

**EV230WS**

**Indoor Charging Stations**

Residential Applications

**EV230WS**
**(shown with skin)**

**NOTE:** Use on vehicles with an SAE J1772 compliant connector with silver plated contacts only. Go to www.schneiderelectric.us/sites/us/en/support/documents-downloads.page or call 1-888-778-2733 for a list of compatible vehicles.

## Catalog Numbers

**Table 6: Indoor Charging Station—Wall-Mount**

| Catalog Number | Input Voltage System | Output Current | Mounting Type | Charging Units | Application | Features |
|---|---|---|---|---|---|---|
| EV230WS | 208–240 Vac | 30 A[1] | Wall | Single | Indoor | Delay Start |

[1] Feeder circuit breaker size = 40 A.

# Technical Specifications

**Figure 6: Indoor Charging Station Wiring Diagrams**

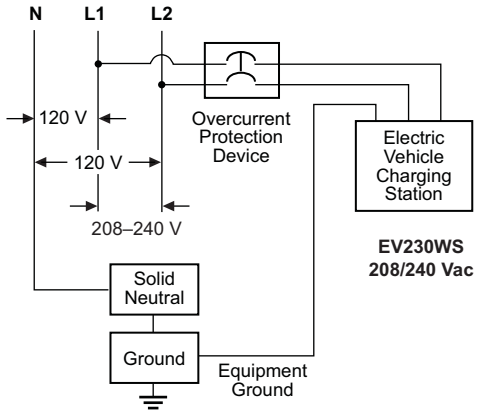



**Table 7: Indoor Charging Stations**

| Power Specifications | | |
|---|---|---|
| Input Power | | 208–240 Vac, single-phase, 60 Hz, 30 A maximum |
| Input Power Connection | | Line 1, Line 2, and Ground |
| Feeder Circuit Breaker | | 2-pole, 40 A, non-GFCI type |
| Output Power | | 208–240 Vac, 30 A, 7.2 kW max. |

| Physical Specifications | |
|---|---|
| Enclosure Type | Type 1 (Indoor only) |
| Enclosure Dimensions | See dimensions on Page 13 |
| Enclosure Mounting | Wall-mount |
| Cable Type | SAE J1772 |
| Cable Length | 18 ft. (5.5 m) |
| Cable Management | Non-retractable, separate from the enclosure |
| Shipping Weight | 17.0 lbs. (7.71 kg) |

| User Interface | |
|---|---|
| Power Available | Status indicator |
| Charging | Eight-segment progress indicator |
| Ground Fault | Red status indicator |
| System Detected Fault | Push button and red stop indicator |
| Delay Start | Push button to delay up to eight hours, in one-hour increments |

| Protection | | |
|---|---|---|
| Ground Fault Protection | EV230WS | Integral, CCID 20 mA, auto reset |
| Ground Fault Protection System Test | | Automatic at the beginning of each charge cycle |

| Environmental | |
|---|---|
| Operating Temperature | -22°F to 131°F (-30°C to 55°C) |
| Electro-static Discharge | 15 kV open air, 8 kV contact |
| Surge | 6 kV |
| Radiated Immunity | 20 V/m |
| Conducted Immunity | 20 V |
| Electrical Fast Transient/Burst (EFTB) | 2 kV |
| Emissions | FCC Class B |

| Standards Compliance |
|---|
| NEC Article 625 |
| SAE J1772 |
| UL 2594 |
| CSA 22.2 |

**NOTE:** Use on vehicles with an SAE J1772 compliant connector with silver plated contacts only. Go to www.schneiderelectric.us/sites/us/en/support/documents-downloads.page or call 1-888-778-2733 for a list of compatible vehicles.Dimensions—Indoor Wall-Mount Charging Stations.

**Figure 7: Indoor Wall-Mount Charging Station**

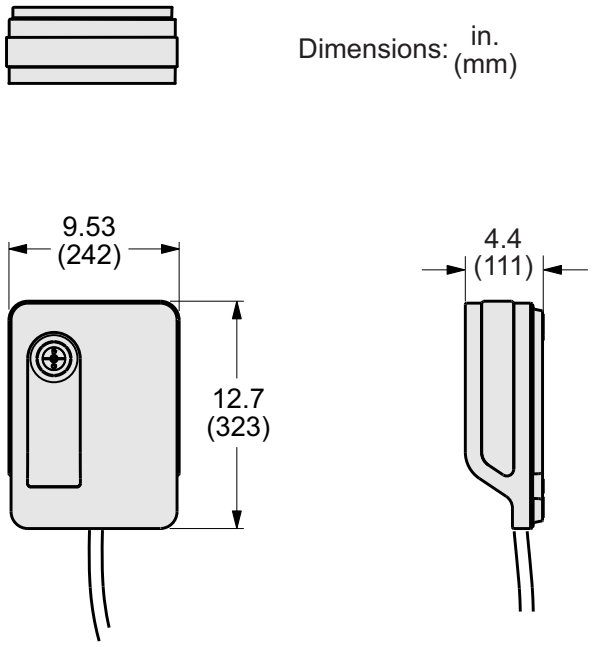
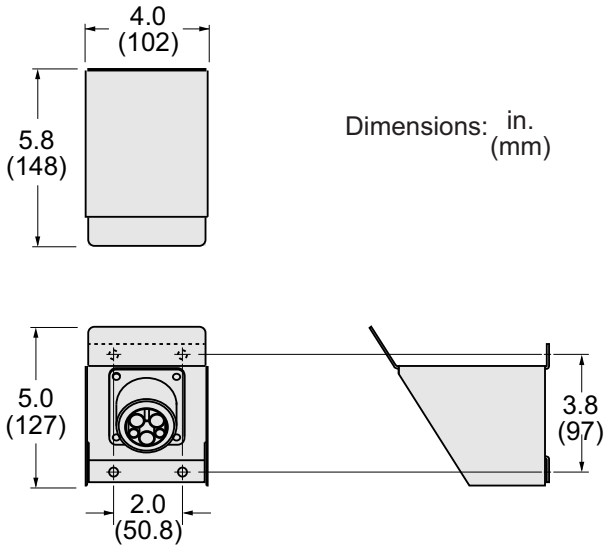



**Figure 8: Wall-Mount Cable Bracket with Connector Dock**



# Required Accessories for Outdoor Basic RFID* Enabled Units

RFID solutions are required for EV230PDRR, EV230PSRR, EV230WSRR Level 2 Schneider Electric EV charging stations consisting of the following accessories:

- Handheld Programmer (EVRFIDHP)
- RFID Authentication Cards (EVRFIDKF, quantities of 10)

## Handheld Programmer

EVRFIDHP

### Features

- Used to add and remove users
- One needed for total charging station system
- Connects via radio frequency
- Feedback via audio tone and LED indicator on Proximity Reader
- 4-digit PIN access

| Technical Specifications | |
|---|---|
| Frequency | 125 kHz / 62.5 kHz |
| Dimensions | See dimensions on Page 15 |
| Weight | 7 oz. (200 g) |
| Operating Temperature | -22°F to 131°F (-30°C to 55°C) |
| Color | Black |
| Material | ABS |

| Description | Catalog Number |
|---|---|
| RFID Handheld Programmer | EVRFIDHP |

## RFID Authentication Cards


EVRFIDKF-10

### Features (Level 2 chargers only)

- Wallet friendly
- Robust and durable design
- Unique ID codes

| Technical Specifications | |
|---|---|
| Frequency | 125 kHz / 62.5 kHz |
| Weight | 0.31 oz. (8.8 g) |
| Operating Temperature | -40°F to 158°F (-40°C to +70°C) |
| Humidity | 0–100% non-condensing |
| Material | ABS |

| Description | Catalog Number |
|---|---|
| RFID Authentication Card (Quantity of 10) | EVRFIDKF-10 |

* RFID = Radio Frequency Identification.

## RFID Accessory Dimensions (basic only)

**Figure 9: Handheld Programmer for Level 2 RFID Units**

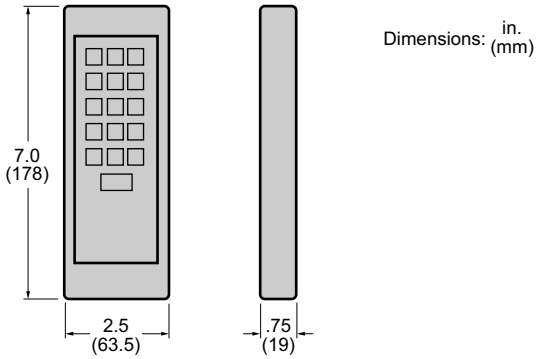
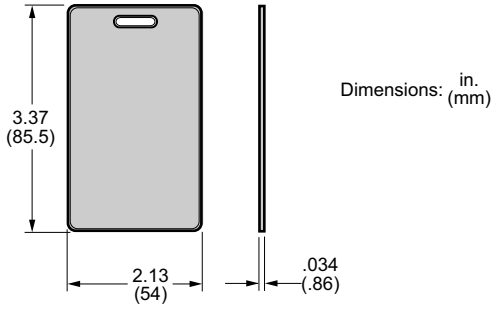



**Figure 10: RFID Authentication Cards**



**Schneider Electric USA, Inc.**
1415 S. Roselle Road
Palatine, IL 60067 USA
1-888-778-2733
www.schneider-electric.us



2800CT1001R09/14 
Replaces 2800CT1001R08/14