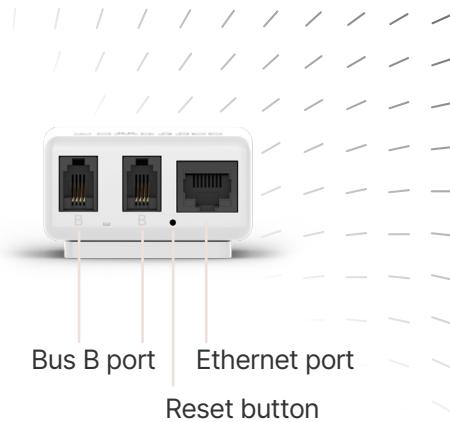


# Smappee Infinity Connect



The Connect is, similar to the Genius, the gateway between the Power Box and the cloud (Smappee or other), ensuring secure data storage from different components. Data is transferred via Ethernet or Wi-Fi. In the event of a network outage, data will be stored for one day. The Connect does not offer smart control, unlike the Genius that does offer smart control. When used as gateway in a Smappee EV Line Charging Station it enables smart charging and loads balancing functionalities. The Connect is a cost-efficient way to add intelligence to the Smappee Infinity setup.

- Gateway between monitoring system and cloud via Ethernet or Wi-Fi.
- Future-proof thanks to over-the-air updates.
- Cost-effective alternative to the Smappee Genius.
- Ensures secured data storage from components.
- 1-day data storage in case of network outage.



#### Dimensions

55 × 55 × 26.6 mm  
(2.17 × 2.17 × 1.05 inches)

#### Weight

45 g (1.59 oz)

#### Operating temperature

-25 °C to 70 °C (-13 °F to 158 °F)

#### Storage temperature

-25 °C to 90 °C (-13 °F to 194 °F)

#### Relative humidity

0 % - 95 %, non-condensing

#### Operating altitude

0 – 2,000 m (0 – 6,562 feet)

#### EMC

IEC 61326-1, FCC 47 part 15

#### Safety

IEC 60950-1

#### Spectrum

EN 300 328 V2.1.1

#### Product certifications

CE, FCC, RCM

#### IP Rating (IEC 60529)

IP X0

#### Connectivity

- Ethernet 100BASE-T

- Wi-Fi 2.4 GHz

- 2 × Smappee Bus B

#### Accessories included

- Wall mounting plate

- Smappee Bus cable 150 cm  
(59 inches)

# Smappee Infinity Power Box



The Power Box is the compact and robust heart of the Smappee Infinity monitoring system. It's compatible with almost any electricity network worldwide and is DIN-rail mountable. It measures the line voltage of the connected phases, collects the currents from the CT sensors and calculates power, active energy, reactive energy and other energy and power quality data. It also provides power to all components.

- Works with almost any electricity network worldwide.
- Energy metering functionalities.
- You can measure up to 28 loads.
- Provides power to the entire system.

## Dimensions

55 × 55 × 26.6 mm  
(2.17 × 2.17 × 1.05 inches)

## Weight

44 g (1.55 oz)

## Operating temperature

-25 °C to 75 °C (-13 °F to 167 °F)

## Storage temperature

-25 °C to 90 °C (-13 °F to 194 °F)

## Relative humidity

0 % - 95 %, non-condensing

## Operating altitude

0 – 2,000 m (0 – 6,562 feet)

## EMC

IEC 61326-1, FCC 47 part 15

## Safety

IEC 61010-1:2010/COR1:2011

Complies with UL 61010-1 and CAN/CSA-C22.2 No. 61010-1-12

## Impact rating (IEC 62262)

IK 06 (Impact Energy: 1J)

## IP Rating (IEC 60529)

IP X0

## Power supply input

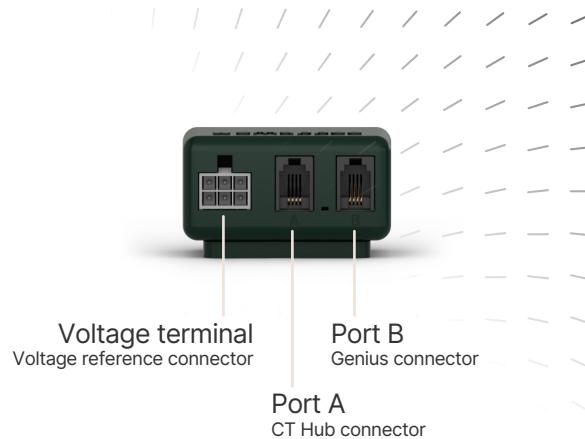
90 – 304,7 V AC

## Power consumption

8 W max

## Voltage measurement inputs

L1, L2, L3, N



## Topology and maximum nominal ranges

- Single phase - 1~: 240 Vrms
- Split phase - 2~: 120/240 Vrms
- 3 phase (3 wires) - 3~: 240 Vrms
- 3 phase (4 wires) - 3~: 240/415 Vrms
- 3 phase (4 wires) - 3~: 277/480 Vrms

## Frequency

50/60 Hz

## Intended environment conditions

Overvoltage category II

## Overvoltage conditions

L1, L2, L3, N

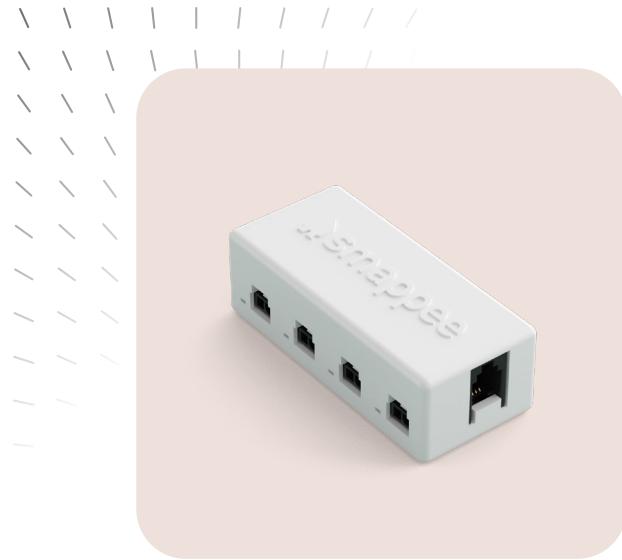
## Connectivity

- Smappee Bus A
- Smappee Bus B

## Accessories included

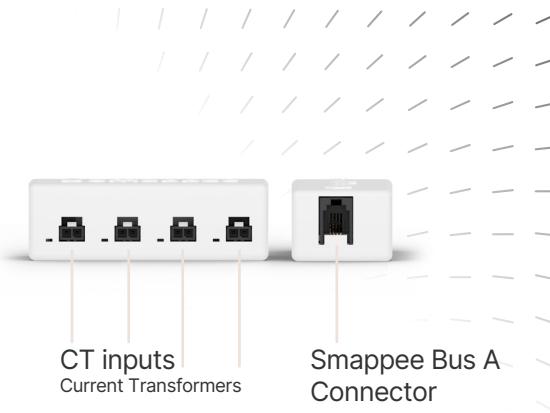
- DIN mounting plate
- Power cable 90 cm open-ended (35.43 inches) or 180 cm open-ended (70.87 inches) in case of L1-VAC-1-US
- Bus termination plug

# Smappee Infinity CT Hub



The CT Hub is the main component of the Smappee Infinity monitoring system. You can connect up to 4 Current Transformers (CTs) or Rogowski coils to a CT Hub to measure different currents up to 10,000 A. This allows for accurate submetering of (a group of) appliances. Daisy chain several CT Hubs to measure different installations up to a distance of 100 meters (109 yards).

- Daisy chain up to 7 CT Hubs up to a distance of 100 meters (109 yards).
- Connect CTs and Rogowski coils to the CT Hubs.
- Measure currents up to 10,000 A.



### Dimensions

70 × 31 × 23 mm  
(2.75 × 1.22 × 0.90 inches)

### Weight

29 g (1.02 oz)

### Operating temperature

-25 °C to 75 °C (-13 °F to 167 °F)

### Storage temperature

-25 °C to 90 °C (-13 °F to 194 °F)

### Relative humidity

0 % - 95 %, non-condensing

### Operating altitude

0 – 2,000 m (0 – 6,562 feet)

### EMC

IEC 61326-1, FCC 47 part 15

### Safety

IEC 61010-1:2010/COR1:2011

Complies with UL 61010-1 and CAN/CSA-C22.2 No. 61010-1-12

### Product certifications

CE, FCC, CSGSus (UL 61010-1), RCM

### IP Rating (IEC 60529)

IP X0

### Connectivity

- 2 × Smappee Bus A
- 4 inputs for Smappee split core CTs (50 A, 100 A, 200A, 400 A) and Rogowski coils (internal diameter 12 cm/4.72 inches or 19 cm/7.48 inches or 30 cm/11.81 inches)

### Accessories included

Smappee Bus cable 40 cm  
(15.75 inches)

# Smappee Infinity Current Transformers

Smappee offers a wide array of Split Core CTs and Rogowski coils that are compatible with the CT Hub. In addition, Smappee offers a Solid Core 3-Phase CT.



- Typically used for 3-phase measurements.
- Accuracy class 0.2 %.
- Small, compact.
- Cost-effective alternative to the CT Hub with CTs.
- Daisy-chain up to 9 Solid Core 3-Phase CTs or combine with Smappee CT Hubs to measure up to 28 inputs and up to a distance of 100 meters (109 yards).

**Input current**

3 × 50 A

**Outer cable diameter**

Maximum 6.7 mm / 0.26 inches

**Dimensions**

59 × 35 × 23 mm  
(2.32 × 1.38 × 0.91 inches)

**Weight**

45 g (1.59 oz)

**Operating temperature**

-10 °C to 70 °C (14 °F to 158 °F)

**Storage temperature**

20 °C to 90 °C (-4 °F to 194 °F)

**Relative humidity**

0 % - 95 %, non-condensing

**EMC**

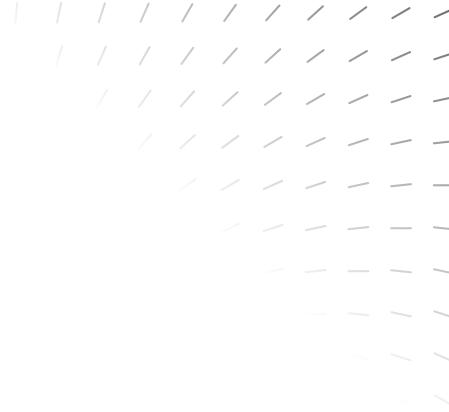
IEC 61326-1, FCC 47 part 15

**Connectivity**

2x Smappee Bus A

**Accessories included**

Smappee Bus cable 40 cm  
(15.75 inches)



Type	Article number	L × W × H (mm)	L × W × H (inches)	Max. wire diameter	Cable length
50 A	AC-CT-50A	25.5 × 40.5 × 26	1 × 0.41 × 1.02	10 mm / 0.39 inches	180 cm / 70.87 inches
100 A	AC-CT-100A	32 × 44.5 × 31	1.26 × 1.75 × 1.22	16 mm / 0.63 inches	180 cm / 70.87 inches
200 A	AC-CT-200A	50.5 × 66.5 × 41	1.99 × 2.62 × 1.61	24 mm / 0.94 inches	180 cm / 70.87 inches
400 A	AC-CT-400A	57.8 × 85 × 42.5	2.28 × 3.35 × 1.67	36 mm / 1.42 inches	180 cm / 70.87 inches
50 A	AC-CT-S-50A	25.5 × 40.5 × 26	1 × 0.41 × 1.02	10 mm / 0.39 inches	30 cm / 11.81 inches



Type	Article number	External diameter	Internal diameter	Cable length
0 - 400 A	AC-RSCT-4CM	50 mm / 1.97 inches	40 mm / 1.57 inches	180 cm / 70.87 inches
0 - 1,600 A	AC-RSCT-12CM	140 mm / 5.51 inches	120 mm / 4.72 inches	180 cm / 70.87 inches
0 - 4,000 A	AC-RSCT-19CM	210 mm / 8.27 inches	190 mm / 7.48 inches	180 cm / 70.87 inches
0 - 10,000 A	AC-RSCT-30CM	320 mm / 12.60 inches	300 mm / 11.81 inches	180 cm / 70.87 inches