



# Neuron Ampere

**Neuron Ampere measures AC current and comes in several ranges from 10A to 150A RMS. The sensor comes with split core and are therefore easy to install on existing power cables. Integrated battery ensures up to 10 years of battery life. All measurements are easily accessible from web, app or API.**

The sensor transmits data to your nearby Neuron Gateway which then again communicates with the Neuron Cloud. Continuous measurement and instant alarm. Duplex communication enables adjustment of parameters such as measuring frequency.

Alarm levels are easy to set in the app and alerts can be received as push notification, E-mails or SMS. QR-code on the sensor ensures easy and accurate registration in the app.

### Typical Applications

- Motors
- Fans
- Pumps

### Advantages

- 👁 **Wireless sensor with integrated battery**
- 👁 **Immediate notice in case of anomalies**
- 👁 **Quick installation**
- 👁 **Operates 10 years on integrated battery**
- 👁 **Robust technology for demanding environment**

### Neuron Ampere Sensor



### Specifications

Part Numbers	422291 10A, 422292 20A, 422293 50A 422303 100A, 422304 150A
Measuring Range (standard)	10A / 20A / 50A / 100A / 150A RMS. Others on request
Resolution	0.1A / 0.2A / 0.5A / 1A / 1.5A
Accuracy	1.5%
Overload Capability	120%
Measuring Frequency	Every 3 sec.
Report Frequency	Reports every 2 min. Or immediately if trigger for critical data transmission is reached, see below
Trigger for critical data transmission	20% change in measurement
Operating Frequency	868 - 870 MHz
Battery Type	Li-SOCI2 (3.6V)
Operating Time*	Up to 10 Years
IP Grade	IP40
Operating Temperature Range	-20 - 60 °C
Max Cable Diameter	Ø 16mm
Dimensions DxH	70x41x29mm

\*Depends on measurement frequency, amount of critical data transmissions and ambient temperature