



# M9-SCT

## Wireless Current Sensor - One Channel

### Description

Our wireless current sensors (CT) simply clip around a single cable, measuring the alternating current (AC) and the wireless transmitter attaches outside the panel for reliable wireless data transmission. The small, energy-harvesting devices use ultra-low power wireless and battery-less technology making them easy to install and very low maintenance.

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### Features

- Measures current (50 Hz or 60Hz) every 30 seconds in a single channel  
Measurement ranges:
  - 1A-60A (+/- 0.1A or 2%)
  - 2A-200A (+/- 0.1A or 2.5%)
- Self-powered using ultra-low energy from the measured conductor, so there's no need for batteries or wiring
- Simply clip around cables with no interruption to electrical supply
- Transmit data wirelessly via EnOcean wireless protocol, which uses internationally approved, licence-free ISM bands

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## Technical specification

Measurement	<p><b>Transmission rate:</b> reports average of 5 measurements every 30 seconds</p> <p><b>Measurement ranges:</b></p> <ul style="list-style-type: none"><li>• 1A-60A (+/- 0.1A or 2%, whichever is greater)</li><li>• 2A-200A (+/- 0.1A or 2.5%, whichever is greater)</li></ul> <p><b>AC current frequencies:</b> 50Hz or 60Hz</p>
Power specification	<p><b>Power:</b> energy harvesting - powered by the measured conductor</p>
Wireless specification	<p><b>Protocol:</b> EnOcean</p> <p><b>Radio frequency:</b></p> <ul style="list-style-type: none"><li>• 868 MHz for Europe and other countries adopting RED</li><li>• 902 MHz for USA (FCC specification) and Canada (IC specification)</li><li>• 928 MHz for Japan (ARIB specification)</li></ul> <p><b>Range:</b> up to 30 metres in buildings and 300 metres in free field</p> <p><b>Telegram type:</b> VLD</p> <p><b>EnOcean Equipment Profile (EEP):</b> D2-32-00</p> <p><b>Interoperability:</b> EnOcean certification 2.0</p>
Enclosure specification	<p><b>Material:</b> nylon 66</p> <p><b>IP rating:</b> IP4X</p> <p><b>Dimensions of CT clamp:</b></p> <ul style="list-style-type: none"><li>• 60A: 25 x 22 x 35 mm (approx)</li><li>• 200A: 35 x 45 x 65 mm (approx)</li></ul> <p><b>Dimensions of transmitter:</b> 80 x 55 x 20 mm (approx)</p>
Installation	<p><b>Fixing:</b> clamp clips around single core cable. Adhesive pads or screws provided for transmitter</p> <p><b>Diameter of measurable conductor:</b></p> <ul style="list-style-type: none"><li>• 60A: 10mm or less</li><li>• 200A: 24mm or less</li></ul> <p><b>Operating temperature and humidity range:</b> -5°C to +40°C; 0-85%</p> <p><b>Storage temperature and humidity range:</b> -20°C to +55°C; 0-85%</p> <p><b>Environment:</b> indoor</p> <p><b>Calibration:</b> not required</p>
Compliance	<p>CE approved, RoHS compliant, FCC compliant</p>
Part number	<p>CTV3_[868]-[902]-[928]_1CH_060A, CTV3_[868]-[902]-[928]_1CH_200A</p>