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# Guidelines when mounting sensors

## Introduction

Neuron sensors are ready for use out of the box and will start logging data after registering the sensor in the app. Even though Neuron sensors deliver great range and long battery life, following some simple guidelines for mounting of the sensor and gateway can greatly improve signal coverage and lifetime of the sensor.

## Mounting

To ensure optimal antenna performance and signal strength the sensor should be placed elevated with some distance to fixed objects. Keep in mind that RF-signals are greatly affected by close metallic surfaces. For sensors with an external antenna the antenna should be clear off the metallic surface.



### Neuron Pro Tip!

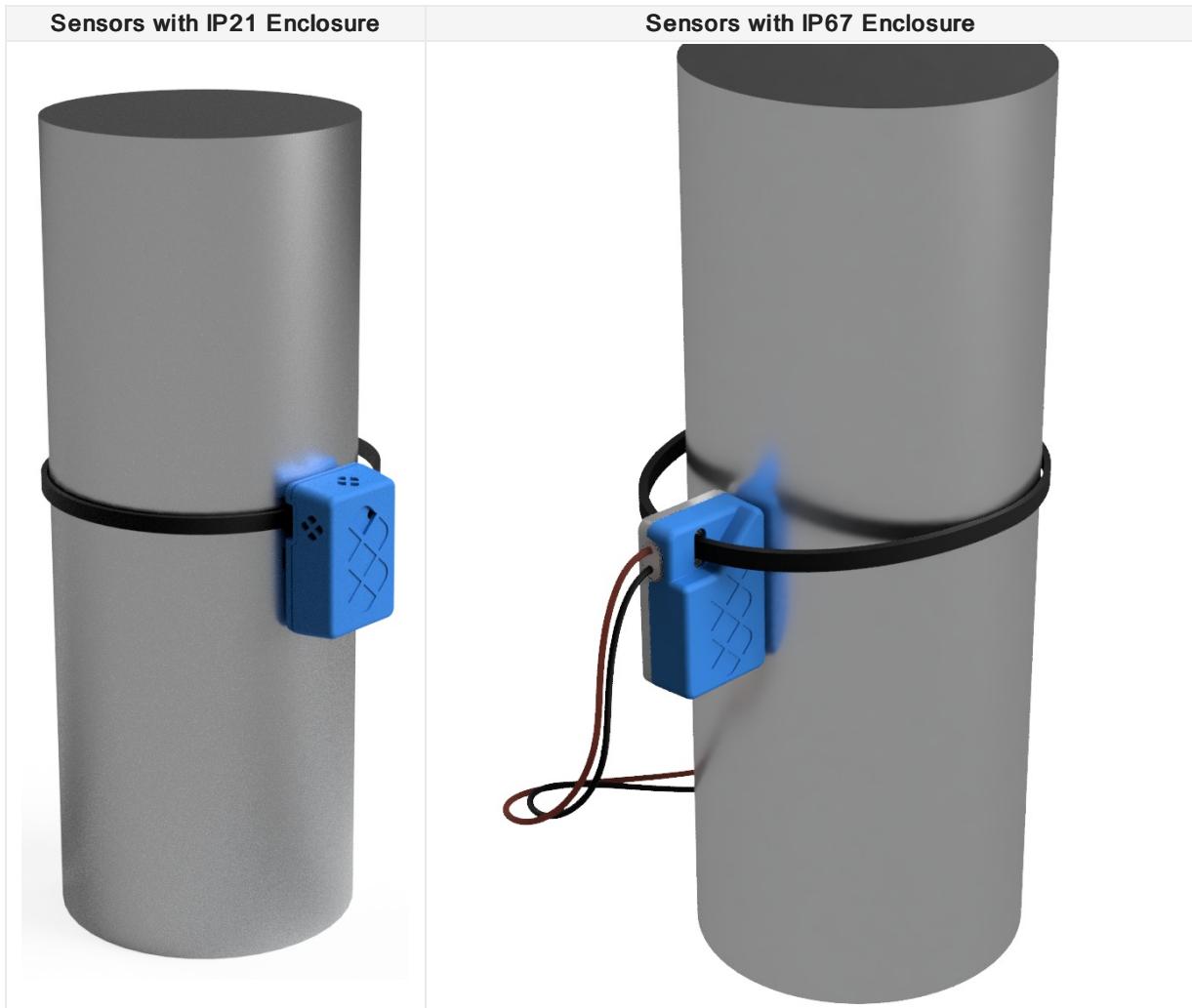
The signal strength from a given sensor can be viewed in the app under each sensor's details page. The RSSI value (Received Signal Strength Indicator) indicates the performance of the connection between sensor and gateway. A higher value indicates better signal performance. To ensure stable, reliable connection the RSSI should not go below -100 dB. -50 dB to -90 dB is normal area of operation. The higher the better!

For sensors operating in environments with greatly varying temperatures care should be taken to avoid putting the sensor in unnecessary stress. Very high or low temperatures will affect the battery life and the signal strength of the sensor. While some sensors must be close to the source of heat or cold, other sensors have external probes which allow the sensor to be placed at a distance.

## Fastening

The small, compact blue Neuron sensors are fitted with fastening holes for use of cable ties. The sensors are also delivered with double sided tape that may be used for fastening of the sensor.

All the black Neuron sensors, like the Neuron IR380 and Neuron Vibration, are fitted with a strong magnet at the back for easy fastening. If no magnetic surfaces are to be found nearby, double sided tape is a good solution for these sensors as well.



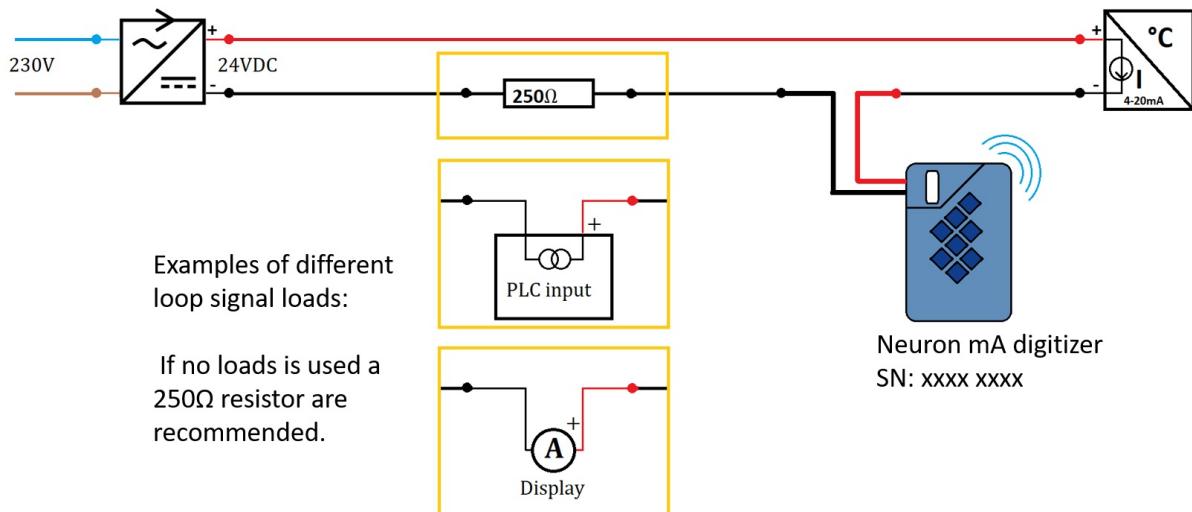
# Installing mA and VDC Digitizer

## Introduction

Our Digitizers are excellent when you want to gather and store data from your new or existing wired sensors. In this article we show some examples of how to connect the Digitizers to achieve correct readings.

Read more about how you configure your Digitizer in the app [here](#)

## Connecting mA Digitizer to loop powered 4-20mA sensor probes



## Connecting mA Digitizer to SRP-73 display with loop power



## Connecting mA Digitizer to 4-20mA sensor probes with active output



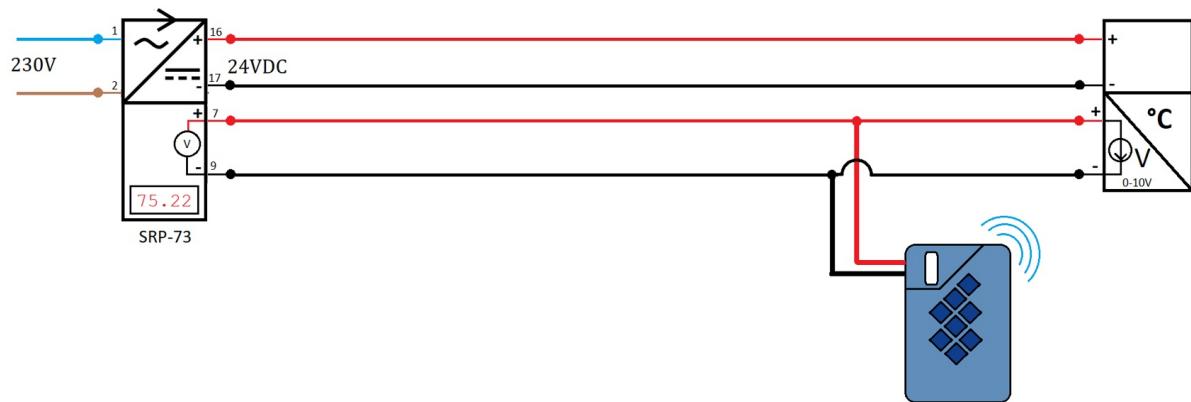
Neuron mA digitizer  
SN: xxxx xxxx

### Connecting VDC Digitizer to 0-10V sensor probes



Neuron V digitizer  
SN: xxxx xxxx

### Connecting VDC Digitizer to 0-10V sensor probes with SRP-73 powered display



Neuron V digitizer

SN: xxxx xxxx