How to install RoadPod® VM sensors
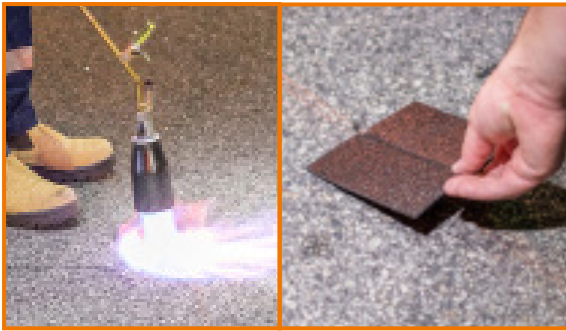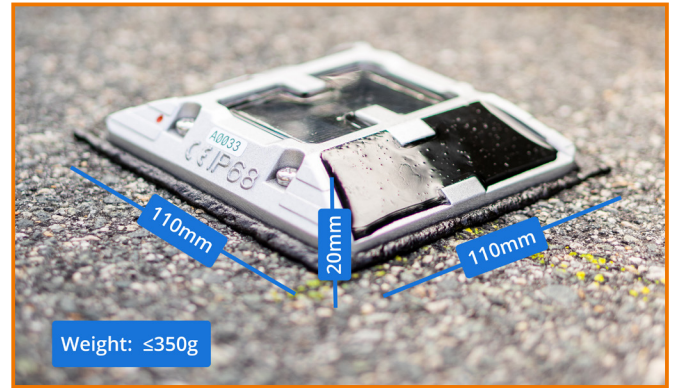

1. Mark the leading edge of each sensor position in the centre of the traffic lane.

2. Use the below spacings between sensors for each speed bracket:

   - 3 m or 9 ft for speeds ≤60kph or ≤35 mph.
   - 4 m or 12 ft for speeds >60kph and <100kph or >35 mph and <60 mph.
   - 6 m or 18 ft for speeds ≥100kph or ≥60 mph.

3. Clear the lane of loose material to allow for proper bonding of the mounting pad.

4. Heat the road surface around where each sensor will be installed to 140°C / 285°F with a gas burner.

5. Place the mounting pad on the heated area, ensuring correct spacings are maintained and each pad is alligned with the direction of the road.

6. Use the gas burner to heat the mounting pad to a final temperature of at least 240°C / 465°F. When the pad is sufficiently heated it should have a viscus liquid appearance and may emit a small amount of smoke.

7. Ensure the side of the RoadPod® VM that reads "SOLAR" is facing the road edge/kerb. Then place it onto the centre of the heated pad, leaving a small amount of pad protruding evenly around the edges.

8. Apply some pressure on the RoadPod® VM by gently standing on it, ensuring alignment is maintained.

9. The entire process should take between 1 and 2 minutes per sensor.

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Requirements

- 8m measuring tape
- Chalk sticks
- Broom or leaf blower
- Gas powered torch
- Laser thermometer
- Mounting pads
- RoadPod® VM sensors

110mm 20mm 110mm

Weight: ≤350g

Recommendations

MetroCount recommends a minimum of 3 RoadPod VM sensors in each traffic lane to ensure accuracy and reliability.

Head to MetroCount's YouTube channel for further video guidelines on how to install the RoadPod® VM sensors.

Store mounting pads indoors at between 2°C / 36°F and 35°C / 95°F. Packaging should be kept flat to avoid pad deformation.

Safety precautions

Protective clothing should be worn at all times during installation. This consists of leather boots, gloves, long pants, high visibility vests and safety goggles or a face shield.

Avoid all contact with hot mounting pad material and hot parts of the gas torch.

If you get molten pad material on your skin, flush the area immediately with cold water and seek medical treatment. Do not attempt to pull the molten material off your skin.

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How to install RoadPod® VM gateway

1. Install MetroCount pedestal cabinet as per usual.

2. Connect MetroCount RoadPod VM Remote Access Module to the solar panel, 12V battery and puck antennas as per the diagram below.

3. Log onto your ATLYST® account or call MetroCount to check the installation has been completed correctly and data is being recorded reliably.

4. If you have any questions or issues during installation, call MetroCount on +61 8 94306164 or email info@metrocount.com.

Puck Antenna

Puck Antenna

12V Solar Panel (<20W)

MetroCount® Remote Access Module

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FPM000001

Battery + −

Charge + −

12V SLA Battery (7 - 15Ah)

Fuse Cable