PEOPLE COUNTING
How many were there?

nCounter

Imagine having 24/7 data on how many people were in your important areas. That's what the Meshed nCounter solution delivers.

Have you ever noticed how everyone seems to carry a smartphone these days? Well so have we. nCounter technology is based on detecting wi-fi enabled smart devices in a specified zone. The nCounter device reports back to base with the number of Wi-Fi connected devices that entered a pre-defined zone. It also measures the numbers that have left the zone, and the average "dwell-time". Smartphone presence is a pretty good proxy for the presence of people these days so nCounter is great for understanding crowd sizes and pedestrian counts. nCounter range can also be tuned to your requirements over-the-air to ensure you only catch the data you need. The nCounter platform comes with data visualisation, data access and storage subscription that provides you a configurable dashboard and complete ownership and portability of your own data.

nCounter
by Meshed

Parks & Playgrounds

Malls & Shopping Precincts

Events Festivals

Sports Fields

Public Amenities

Tourism Hotspots

Entertainment Districts

Train Stations & Bus Stops

MESHED

Data Sheet

How it works

The Meshed nCounter™ platform provides a data aggregation point for your people counting devices. The nCounter wi-fi node device establishes a 'silent' wi-fi hot-spot that smart phones and other devices cannot see or connect to. The nCounter node device gathers a combination of MAC Addresses and other technical parameters voluntarily transmitted over wi-fi from mobile phones (and other wi-fi enabled devices). The device then determines the quantity of wi-fi emitting devices that are present in the area across 10 minute time segments and transmits it via encrypted LoRaWAN connection to the internet, and through The Things Network to the nCounter Platform application. Once the count is performed by the device the gathered information is then removed from the device, avoiding any privacy concerns.

The wi-fi counting zone can be tuned to become larger or smaller within the normal limits of wi-fi hotspot technology. The maximum range is normally between 20 to 50 metres, depending on environmental variables, with a maximum device counting limit of 300 units per time segment. Data is transmitted via The Things Network to the nCounter data platform/dashboard, or other external data store, for display in graphical format. Data is continuously stored on the cloud platform and can be accessed or securely downloaded at any time by authorised users.

Meshed nCounter devices require LoRaWAN coverage using The Things Network and to be registered (at no cost) on The Things Network to enable data transmission. Annual subscription for platform, dashboard, data access and storage applies. LoRaWAN coverage can be created easily for a nominal additional cost if none exists at your location.

Privacy

Only the aggregated device count is transmitted over LoRaWAN and never any information that can identify an individual mobile device or its owner. The nCounter LoRaWAN node devices have no external interface, other than a power connector, and no data can be read directly from the device. The data generated by the nCounter node devices remain the property of the client at all times.

Data Ownership & Re-Use

Meshed offers the nCounter Solution including devices, platform and maintenance subscription using a licence to use arrangement. Customers own the data and can extract/export their data for internal purposes. However, as the licensor of the solution, Meshed needs to be attributed when the nCounter data is re-used or published to public websites, digital twins or third-party platforms. Meshed also reserves the right to also use the data for our own marketing, product development or commercial purposes.
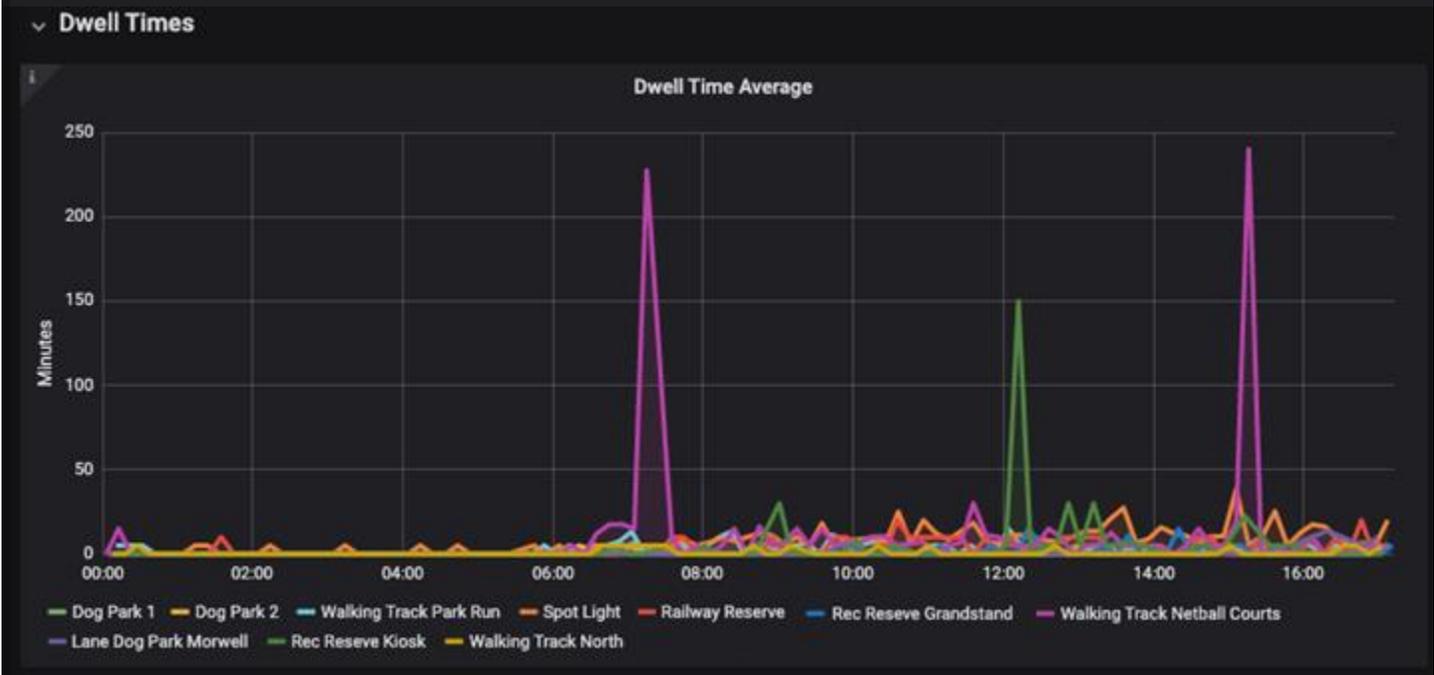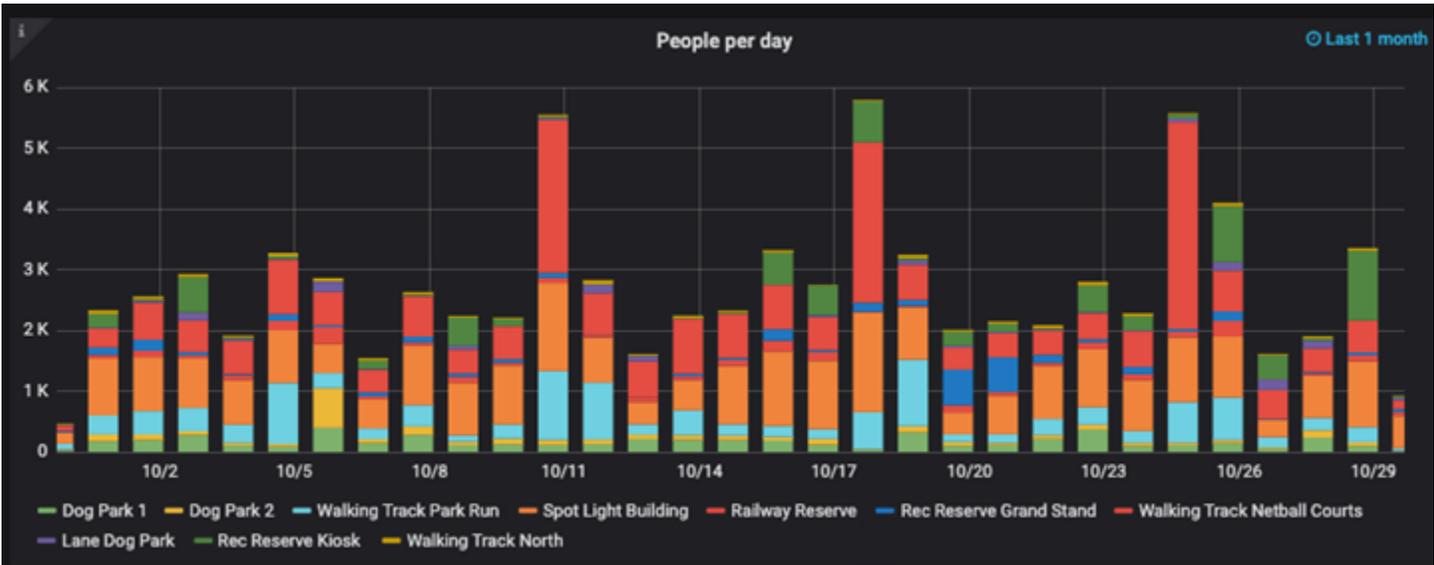
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nCounter Dashboard Visualisation Platform

People per day

Legend: Dog Park 1 — Dog Park 2 — Walking Track Park Run — Spot Light Building — Railway Reserve — Rec Reserve Grand Stand — Walking Track Netball Courts — Lane Dog Park — Rec Reserve Kiosk — Walking Track North

Dwell Time Histogram

X-axis: <10 min, 10-20 min, 20-40 min, 40-60 min, 1-2 hr, 2-3 hr, 3-6 hr, >6 hr

Dwell Times

Dwell Time Average

Y-axis: Minutes (0, 50, 100, 150, 200, 250)

X-axis: 00:00, 02:00, 04:00, 06:00, 08:00, 10:00, 12:00, 14:00, 16:00

Legend: Dog Park 1 — Dog Park 2 — Walking Track Park Run — Spot Light — Railway Reserve — Rec Reserve Grandstand — Walking Track Netball Courts — Lane Dog Park Morwell — Rec Reserve Kiosk — Walking Track North

Specifications:

Power requirements   5016 VDC, <300mA (Solar Powered Optional)
Dimensions: 151(W) x 66(D) x 42(H)mm
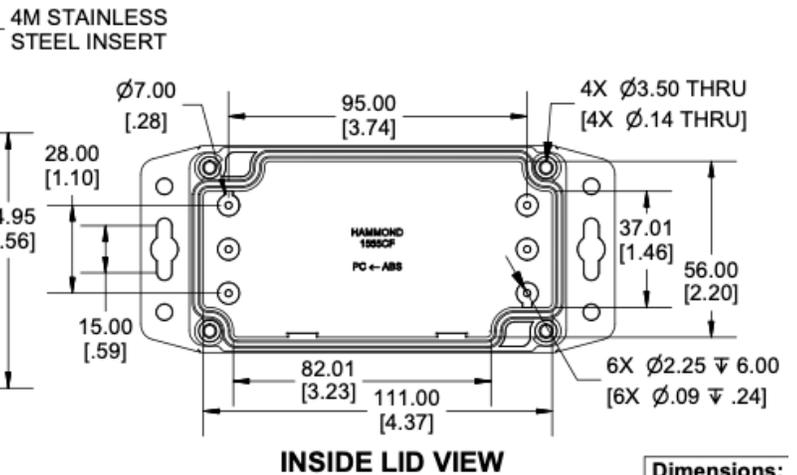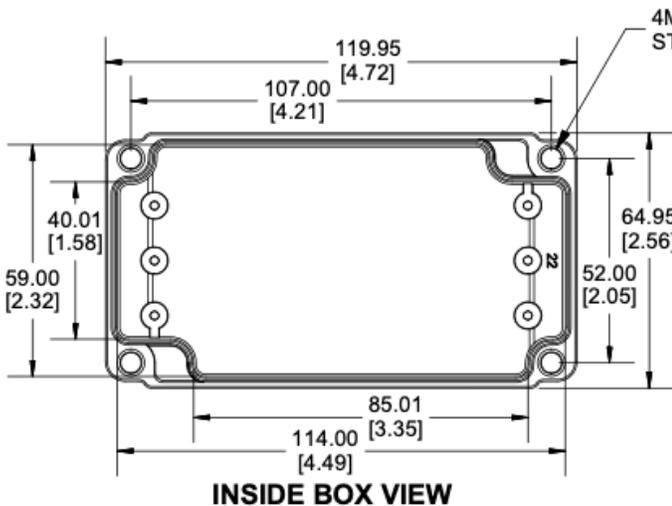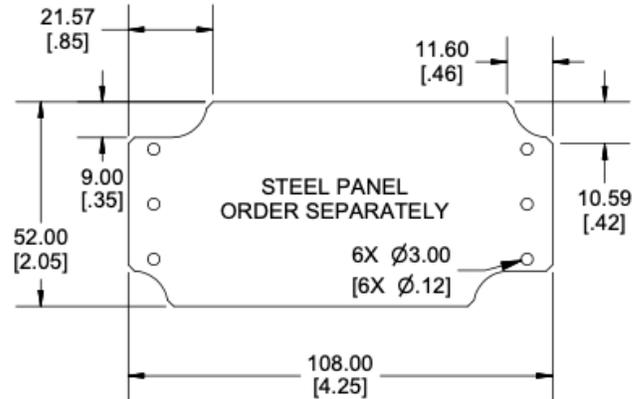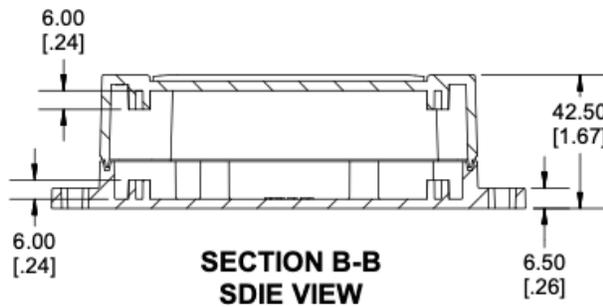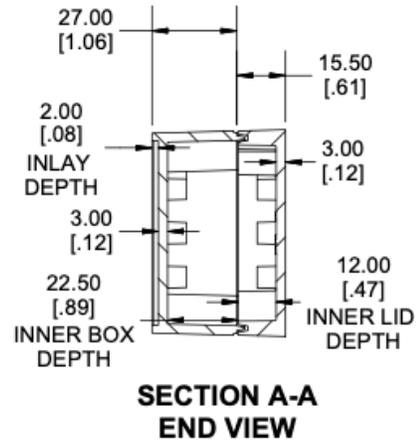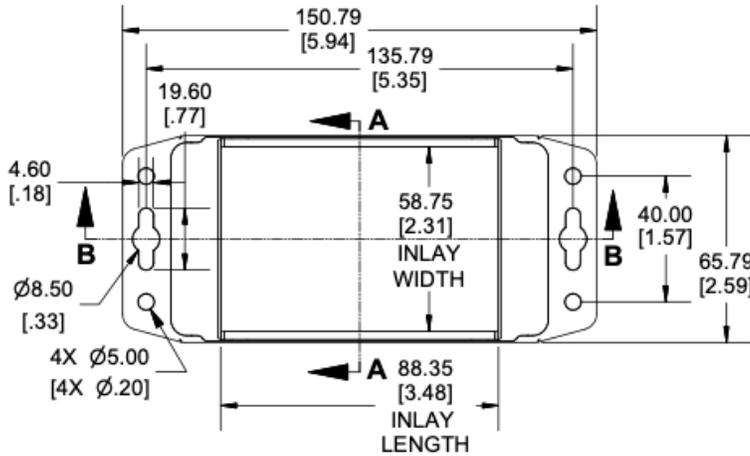Connectivity: LoRaWAN AU915 and AS923
Outdoor rating: IP67 for nCounter device. USB Power Supply not IP Rated.

nCounter

nCounter Case Dimensions

ENCLOSURE ASSEMBLY TOP VIEW

SECTION A-A END VIEW

SECTION B-B SDIE VIEW

STEEL PANEL ORDER SEPARATELY

INSIDE BOX VIEW

INSIDE LID VIEW

Dimensions:
mm
[inches]