



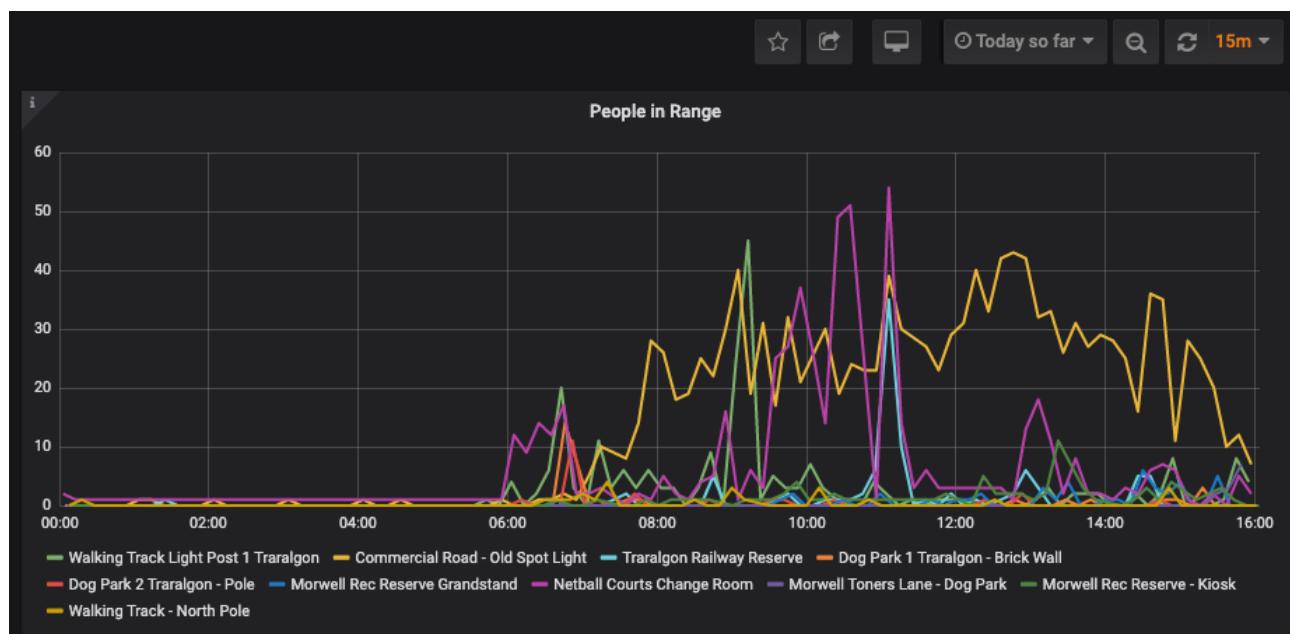
Description

Meshed nCounter is an omni-directional people counting solution designed to provide an approximate count of the number of people in its vicinity. It achieves this by anonymously counting the number of WIFI – enabled devices in its vicinity in 10 – minute segments & reporting the counts over a LoRaWAN® connection to the nCounter platform where the data can be visualized.

Meshed nCounter devices require LoRaWAN coverage, normally using [The Things Stack](#), or via [Packet Broker](#) or Passive Roaming. Annual subscription for platform, dashboard, data access & storage apply. LoRaWAN coverage can be created easily for a nominal additional cost if none exists at your location.

Applications	Data Metrics
<ul style="list-style-type: none">– 24/7 People counting insights for– Kerbs/Walking Trails– Cycle/Bike Ways/Paths– Malls & Shopping Precincts– Activity/Central Business Districts– Town Hall/Libraries/Community Halls– Smart Precincts & Digital Hubs– Parks & Playgrounds– Events Festivals– Sports Fields– Public Toilets/Amenities– Tourism Hotspots– Entertainment Districts– Train Stations– Bus Stops– & More	<ul style="list-style-type: none">– Number of Devices:<ul style="list-style-type: none">○ Total - Total in range in this period (i.e. current + new)○ New - Detected in this period who were not here in the previous period.○ Current - Still in range from previous period.○ Left - That have left in this period.– Dwell Times per Hour, Day, Month, Year– Specify Your Own Time Periods– Average Dwell Times

Visualization Dashboard



Key Functionality	
Limits	<ul style="list-style-type: none"> Maximum cell phones per 10-minute period: 300 Maximum Wi-Fi range: Approximately 164 feet (50 metres). Typical range of any personal electronics with Wi-Fi. Default Wi-Fi range: Around 66 feet (20 meters) Can be increased or decreased by setting Wi-Fi RSSI Threshold remotely (contact Meshed Support). LoRaWAN® range: Up to 10 miles (16 kms) in flat/rural areas, down to 1–2 miles (1.6 to 3kms) in dense urban areas. Typical range for any LoRaWAN®. Physical limitations include terrain, hard obstacles e.g. concrete/buildings & position of LoRaWAN® gateway.
Range	<p>The people counting range can be changed from less than 1 metre all the way up to the maximum range of the Wi-Fi module. Things to consider:</p> <ul style="list-style-type: none"> Accuracy: There is a trade-off between range, accuracy and the speed at which people pass through the area. Small ranges with fast traffic will yield low accuracy (under-counting). Maximum limit: If the range is too large, the maximum limit will be reached (approx. 300 people per period) and the results may be inaccurate.
Location	<ul style="list-style-type: none"> When a device is powered up, the nCounter platform will attempt to locate the device & place it on the map. If there are no (or few) Wi-Fi networks nearby, its location may be inaccurate or unavailable. We can override this with a manual entry if required.
API	<ul style="list-style-type: none"> Data can be pushed to a platform of your choice using a REST API call, specifically a HTTP POST.
Privacy	<ul style="list-style-type: none"> Only the aggregated device count data is transmitted over LoRaWAN & never any information that can identify an individual mobile device or its owner. The nCounter LoRaWAN node device has no external interface, other than a power connector, & no data can be read directly from the device.
Conditions of Use	<ul style="list-style-type: none"> Meshed offers the nCounter Solution including devices, platform & maintenance subscription using a “licence to use” arrangement. Customers own the data & 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.

Product Specifications	
Dimensions	151(W) x 66(D) x 42(H)mm
	
Weight	160 gm
Power requirements	5-16 VDC, <300mA (Solar powered optional)
IP Rating	IP67 for nCounter device. USB Power Supply not IP rated
Operating Temperature	-40 °C to +85 °C
Regional Parameters	LoRaWAN Band Plans AU915, AS923, US915
LoRaWAN Device Type	Class C
Wireless Technology	LoRaWAN® v1.0.4
	LoRaWAN® is a mark used under license from the LoRa Alliance®.

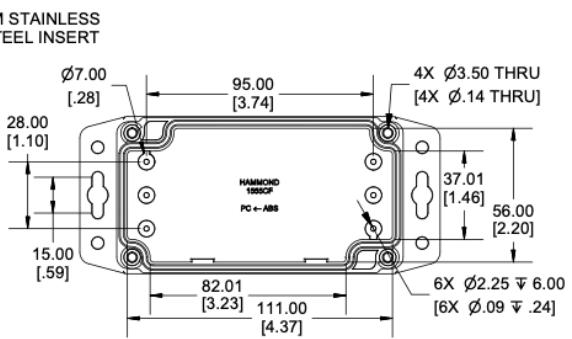
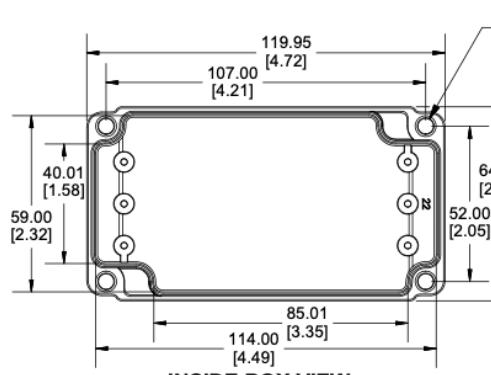
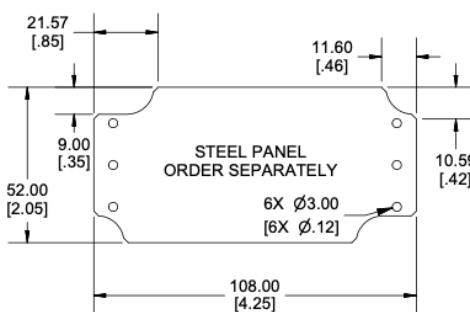
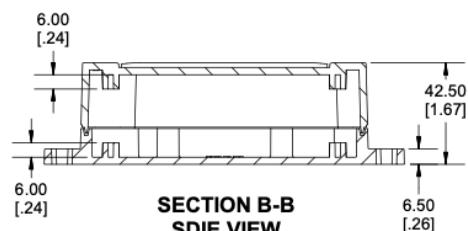
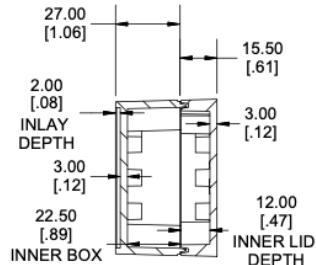
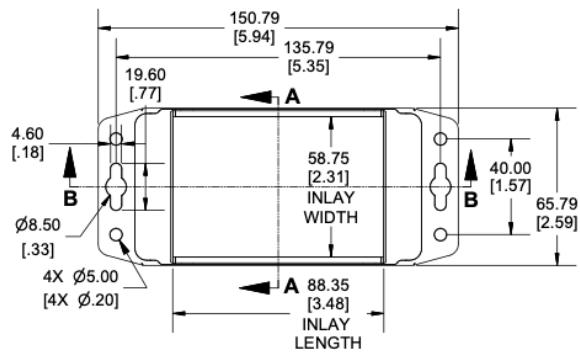


Meshed nCounter v3 Data Sheet

Published 27-Nov-23



nCounter Device Dimensions



Dimensions:
mm
[Inches]

Items Supplied in the Box

nCounter Device



Power Cable 2-3m.
Various lengths available.



USB Power Supply



nCounter Solar Power Kit includes solar panel,
bracket, rechargeable battery, cables &
connectors