

Vaisala Nu-Metrics Portable Traffic Analyzer NC200



The Vaisala Nu-Metrics Portable Traffic Analyzer NC200 is designed to provide accurate count, speed, and classification data. The sensor is placed directly in the traffic lane to measure data, and can be installed and removed quickly and easily. The NC-100 model provides count only, while the NC-200 model provides count, speed and classification of vehicles.

The traffic analyzer combines accuracy and portability, monitoring traffic flow conditions right where you need them. Whether you are surveying traffic on a local roadway, bridge, parking garage, construction area, or in and out of local points of interest, the sensor provide key data necessary for effective traffic analysis.

The sensor utilizes Vehicle Magnetic Imaging (VMI) technology to detect vehicle count, speed and classification. The data is easily exported to Highway Data Management (HDM) software, where it can be presented in the form of reports, charts and graphs.



Benefits

- Portable sensor detects vehicle count, speed and classification
- Can be installed and removed in minutes
- Less noticeable to traffic, which results in more accurate information

Applications

- Traffic studies
- Parking lots, garages, and shopping centers
- Temporary studies for roadway planning
- Construction zones
- Airports, stadiums, and casinos
- Military bases and border crossings
- Parks or recreational areas
- Police departments (for speed studies)
- Stop signs, traffic lights, or posted speeds

Features

- Accurately measures vehicle count, speed, and classification
- Categorizes traffic into bins or by individual vehicle
- 15 speed bins and 13 length classification bins (configurable)
- Durable extruded aluminum housing
- Long life, rechargeable, Lithium-ion battery
- Connects to any computer for easy data retrieval
- Easy to use software for viewing data
- Software allows you to change your parameters after the study

Technical data

General

Housing Material	Extruded/anodized aluminum
Ultimate Bearing Strength	88,000 psi (607 Mpa)
Dimensions	181 x 118 x 12.7 millimeters (7.125 x 4.625 x 0.5 inches)
Weight	0.59 kg (1.3 lbs)
Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Sensor	GMR magnetic chip for Vehicle Magnetic Imaging
Memory	Micro Serial Flash: 3MB
Battery/Power	Lithium-ion rechargeable (up to 21 days before recharge)
Computed Values	Imperial or Metric
Capacity	Up to 300,000 vehicles or 21 days per study, whichever occurs first
Length Classification* (% of Volume)	13 bins (user selectable length range)
Speed Classification* (% of Volume)	15 bins (user selectable speed range)
Vehicle Detection	Detects vehicles between 13 & 193 kph (8 to 120 mph)

CE COMPLIANCE

EN-55022:1998 Emissions
EN-55024:1998 Immunity
EN-60950:2002 Low Voltage

*NC200 feature/specification only

Performance

Battery/Power	Lithium I _{on} Rechargeable 3.0 - 4.20 VDC, 3000 mAH at 23 °C Nominal voltage 3.70 VDC (Up to 21 days before recharge) Automatic overcharge protection Field replaceable by customer
Accuracy length classification	+/- 4 ft, 90 % of the time
Accuracy speed classification	+/- 4 mph, 90 % of the time
Accuracy vehicle count determination	+/- 1%; 95 % of the time
Vehicle Detection	vehicles between 13 & 193 kph (8 to 120 mph)



VAISALA

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