



Traffic Detection & Environmental Sensor

Model - GC-LP8P-BTS

FEATURES

- Nordic Processor w/ ARM Cortex
- AES Hardware Encryption w/ EasyDMA
- Long Range Omni Directional Antenna
- Integrated with Major ATMS Software
- Unattended Real-Time Monitoring
- RF & GSM Communication Technology Options
- Plug & Play – No On-Site Setup
- Industrial CO₂, Noxious Gas, Temperature, Humidity & Barometric Pressure Sensor
- NEMA 4 Polycarbonate Enclosure – Weatherproof, Impact & UV- Resistant.



APPLICATIONS

- Captures MAC Addresses from Broadcasting & Non-Broadcasting Bluetooth, WiFi and Tire Pressure Monitoring Sensor (TPMS) Appliances
- Feeds MAC Address Information to ATMS Software
- Culls & Analyzes MAC Addresses to Calculate Average Speed & Travel Time
- Advanced Traffic Management System Reporting
- Air Quality Monitoring in Standard & Extreme Conditions
- Atmospheric CO₂ & Noxious Gas Sensing
- Air Quality Planning & Advisories

AUTOMATIC SENSOR CALIBRATION

Barometric pressure, proximity to sea level and temperature data are used by the sensor to compensate for variations. The device periodically performs automatic calibration routines without user interaction.

SPECIFICATIONS

Connectivity: LAN

Optimal Connectivity: NB IoT, LoRa, GSM, WiFi

Measurements: CO₂, NH₃, NO_x, Alcohol & Benzene (0-5000 ppm) – Automatic Temperature Calibration

Accuracy: Gasses (± 0.75%) | Temperature (± 1%) | Humidity (± 3%) | Barometric Pressure (± 0.25%)

GIS Mapping: Optional GPS Module

On-Board Data Storage: Micro-SD Slot

Processor: Nordic w/ ARM Cortex

Security: AES 128 Bit Hardware Encryption

Ingress Protection: NEMA 4 IP 66 Enclosure

Power Supply: 5-12 VDC | Power over Ethernet | Optional AC/DC Converter | Optional Solar Kit

Extended Temperature Range: -34°C to +74°C

Lifespan: 10 Years

Weight: 5 lbs

Mounting: Wall, Pole (with pole adaptor)

Certifications: FCC & UL

Antenna: External Antenna w/ SMA Connector