



Model: SSN-GA-1



SSN TECHNOLOGIES

An ISO 9001 : 2015 Certified Company

[Manufactures of Vehicle Pollution Testing Machine,
Speed Governor & Vehicle Location Tracking Device
(AIS:140, IRNSS Method)]

FOUR/FIVE GAS ANALYZER

**INTRODUCTION &
OPERATING PRINCIPLE**

SSN Technologies, Tech Skanda brand, Gas Analyzer model SSN-GA-1 low cost and compact design. Four gas analyzer can be used for measurement of the concentration of automobile emission gas CO, CO₂, HC, O₂, Lambda and RPM, (Optional-NO_x & SO_x). It is based on the infrared source beams non-dispersive infrared (NDIR) method, this analyzer is designed with portable and smaller physical dimensions.

NDIR measures trace gases by determining the absorption of an emitted infrared light source through a certain air sample. For NDIR Gas analyzer, the main components are infrared source (lamp), a sample chamber or light tube, a wavelength filter, and the infrared detector. The gas is pumped (or diffuses) into the sample chamber, and gas concentration is measured electro-optically by its absorption of a specific wavelength in the infrared (IR). The IR light is directed through the sample chamber towards the detector.

The detector has an optical filter in front of it that eliminates all light except the wavelength the selected gas molecules can absorb. Ideally other gas molecules do not absorb light at this wavelength, and do not affect the amount of light reaching the detector. The detector measures the attenuated signal depending amount of gas absorption and it is proportional to the measured gas concentration.

KEY FEATURES

- Measures CO/HC/CO₂/O₂/LAMBDA/RPM
- Advanced Microcontroller Technology
- LCD Display
- Warm up time is very short & quick response
- Meets Indian standard ISO-3930
- RPM Measurement (Battery /Magnetic /Cigar Lighter)
- Auto Zero Facilities
- Electronic Leak Checking

TECHNICAL SPECIFICATION

Gases Measurement Range & Resolution & Method

- CO(Carbon Monoxide) : 0-15% By Vol & 0.01% & NDIR
- HC(Hydrocarbon) Propane : 0-15000ppm & 1PPM & NDIR
- CO₂(Carbon Dioxide) : 0-20% By Vol & 0.01% & NDIR
- O₂(Oxygen) : 0-25% By Vol & 0.01% & Electrochemical
- Lambda : 0.1 % By Vol & 0.1
- Nox(Nitrogen Oxides) : Electrochemical (Optional)
- Sox (Sulphur Oxides) : Electrochemical (Optional)
- Warm up time : < 2min
- Display Type : LCD Display
- Operating Temp : 0 to 50° C

- RS 232 & USB for computer interface
- Wireless Remote (Blue tooth) operate facilities
- Operate both AC& DC, 12V
- Fuel selection facilities (Petrol, CNG & LPG)
- Easy to Installation & Operate
- Light Weight
- Low Maintenance
- Warranty 12 months from the date of supply
- Approved by ARAI, Pune

- Flow rate : 4500 CC /Min
- Power : 30 W
- Input Voltage : +12V DC
- Response Time : <10 Sec
- Oil Temperature : 0 to 150° C & 1° C & +/- 3%
- RPM : 400 to 6000 RPM
- Printer : Dot Matrix (Optional)
- PC Interface : RS 232 & USB
- Dimension : 33x23 x 11cm
- Weight : 3.3Kg

STANDARD ACCESSORIES

- Gas Analyzer, Model : SSN-GA-1
- Sampling Probe & Tube 7M length
- Power Supply Adapter
- Operational Manual (Soft copy)
- Software CD
- RS 232 & USB Cable

OPTIONAL ACCESSORIES

- Nox & Sox Measurement
- RPM Measurement(Battery / Magnetic / Cigar Lighter)
- Oil Temperature Measurement
- Wireless Remote
- Printer

Our Company policy is continuous development of this product.



SSN TECHNOLOGIES

Factory : No.56, Alamu Nagar, 3rd Street, 2nd Cross, Near Ashwin Hospital, Sathy Road, Coimbatore -641 012, TamilNadu,India.

Tel.No: 0422-2523340 Mob: +91 95669 92118 / 88070 33340 / 99409 23156

E-Mail: ssntechcbe@gmail.com | Web : www.ssntechnologies.com

Regional Sales & Service offices:

Chennai : 99521 40040

Delhi : 99581 22763