



5G-10

Five Gas Emission Analyzer

Technical Specifications

Measurement

NDIR (Non-Dispersive Infrared)
for HC, CO, CO₂
Electrochemical for NO, O₂

Program Accuracy Adherence

EPA ASM
ASM/BAR97
OIML Class 0 and OIML Class 1

Gases Measured

HC (Hydrocarbon)
CO (Carbon Monoxide)
CO₂ (Carbon Dioxide)
O₂ (Oxygen)
NO (Nitric Oxide)

Displayed Data

HC 0-30,000ppm
CO 0-15%
CO₂ 0-20%
NO_x 0-5000ppm
O₂ 0-25%
Lambda 0.200-1.800%
A/F 0-30:1
RPM 0-15,000rpm
Temperature 0-302F (0-150C)

Size

10" x 7.5" x 3.5" (26cm x 19cm x 9cm)

Weight

Instrument 7lbs (3.1 kg)

Power Supply

Internal gel cell battery (rechargeable)
External 12 VDC supply (vehicle battery
or cigarette lighter)
120 VAC (240 VAC) wall adapter

Battery Operating Time

Up to 6 1/2 hours continuous

Battery Charge Time

10 hours (approximate)

Operating Environment

32 to 122 Degrees Fahrenheit (0 to 50 Celsius)
To 95% Humidity
-1,000 to 8,000 ft (-300 to 2,500 m)

Measurement Resolution

HC: 1 ppm
CO: 0.01%
CO₂: 0.01%
O₂: 0.01%
NO: 1 ppm

Measurement Accuracy

| | | |
|-------------------|--------------------|-----------------------------|
| HC: | 0 to 2,000 ppm | +/- 4ppm abs or +/- 3% rel |
| | 2,001 to 15,000 | +/- 5% rel |
| | 15,001 to 30,000 | +/- 8% rel |
| CO: | 0.00 to 10.00% | +/- 0.02 abs / +/- 3% rel |
| | 10.01 to 15.00% | +/- 5% rel |
| CO ₂ : | 0.00 to 16.00% | +/- 0.3 abs / +/- 3% rel |
| | 16.01 to 20.00% | +/- 5% rel |
| O ₂ : | 0.00 to 25.00% | +/- 0.1% abs / +/- 3% rel |
| NO: | 0 to 4,000 ppm | +/- 25 ppm abs / +/- 3% rel |
| | 4,000 to 5,000 ppm | +/- 5% rel |

Sample Acquisition Time

Approximately 6 seconds

Warm Up Time

40 seconds

Memory

Stores up to 250 individual records with ID
Records up to 1/2 hour of live data

PC Communication

RS232 port
5G-10 can be operated from PC
Records can be downloaded to PC

Optional Printer

Operates by AC adapter or optional battery