NEW

Nanhua INSTRUMENTS

NHA-502EN

Automotive Emission Analyzer

(5-gas / portable)

Main Features and Specifications

- Measure concentration of HC, CO, CO_2, O_2 and NO contained in exhaust gases from gasoline engine of vehicles. Advanced NDIR (non-Dispersive Infrared) analysis technology is used to measure HC, CO, CO_2 and the newest generation of electrochemical technology is adopted to measure O_2 and NO .
- Designed with a large LCD screen for easier setting and operation.
- Automatic calculation and display of A/F (air-fuel-ratio) and Lambda air ratio λ.
- Emissions from vehicle engine fuels of CNG, LPG and Ethanol gasoline can be measured.
- 700 groups of measurement data storage, which includes HC, CO, CO_2, O_2, NO, n, T and λ.
- Saving measurement data to USB disk with file format of Microsoft® Excel.
- Designed with inductive clip-on pickup sensor for RPM measurement.
- Designed with oil temperature measurement probe.
- Designed with RS-232C digital serial interface.
- In compliance with accuracy requirement of ISO 3930 or OIML R99 Class 0.

Options and Accessories:

- Micro printer.
- Various RPM measurement adaptors.
- DC12V vehicle power inverter.

Main Technical Specifications

◆ **Measuring Range**:

HC: 0～9,999 ppm (n-Hexane)
CO: 0～10 %
CO_2: 0～18 %
O_2: 0～25 %
NO: 0～5,000 ppm

◆ **Measurement Accuracy**:

HC: ±10 ppm (abs.)
±5 % (rel.) (which ever is larger)
CO: ±0.03 % (abs.)
±5 % (rel.) (which ever is larger)
CO_2: ±0.5 % (abs.)
±5 % (rel.) (which ever is larger)
O_2: ±0.1 % (abs.)
±5 % (rel.) (which ever is larger)
NO: ±25 % (abs.)
±4 % (rel.) (which ever is larger)

◆ **Response Time**: Less than 10s for T_{90}
※(O_2, less than 12s. NO, less than 15s)

◆ **Warm-up Time**: 8 min.
※(ambient temperature is not lower than 20℃)
※Fast measurement can be started at 3 min.

◆ **Power Supply**: AC220V ±10% 50Hz ±1Hz

◆ **Net Weight**: 9Kg

◆ **Outer Dimension**:
310mm(W) × 230mm(H) × 485mm(D)

★ The specifications will be changed without notification.