

**NEW**

**Nanhua**  
INSTRUMENTS



## NHA-402EN

### Automotive Emission Analyzer

(4-gas / portable)

#### Main Features and Specifications

- Measure concentration of HC, CO, CO<sub>2</sub>, O<sub>2</sub> contained in exhaust gases from gasoline engine of vehicles. Advanced NDIR (non-Dispersive Infrared) analysis technology is used to measure HC, CO, CO<sub>2</sub> and the newest generation of electrochemical technology is adopted to measure O<sub>2</sub>.
- 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  $\lambda$ .
- 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<sub>2</sub>, O<sub>2</sub>, n, T and  $\lambda$ .
- 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 thermo 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 <sub>2</sub> :	0~18	%
O <sub>2</sub> :	0~25	%

##### ◆ Measurement Accuracy:

HC:	±10	ppm (abs.)
	±5	% (rel.) (which ever is larger)
CO:	±0.03	% (abs.)
	±5	% (rel.) (which ever is larger)
CO <sub>2</sub> :	±0.5	% (abs.)
	±5	% (rel.) (which ever is larger)
O <sub>2</sub> :	±0.1	% (abs.)
	±5	% (rel.) (which ever is larger)

##### ◆ Response Time: Less than 10s for T<sub>90</sub> \*(O<sub>2</sub>, less than 12s)

##### ◆ Warm-up Time: 8 min.

- \*(ambient temperature is not lower than 20°C)
- \*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)

