VEA 401

Automotive Emission Analyzer

(4-gas / portable)

Main Features and Specifications

- Measure concentration of HC, CO, CO_2 and O_2 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 .
- Designed with 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.
- Small Size, light weight and most convenient for carry.
- Designed with inductive clip-on pickup sensor for RPM measurement.
- Designed with oil temperature measurement probe.
- Designed with RS-232C digital serial interface.
- 200 groups of measurement data storage and review.
- In compliance with accuracy requirement of ISO 3930 or OIML R99 Class I.

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 %

◆ **Measurement Accuracy**:

HC: ±12 ppm (abs.) 0 ~ 2,000 ppm
±5 % (rel.) 0 ~ 2,000 ppm (which ever is larger)
±10 % (rel.) 2,001 ~ 9,999 ppm
CO: ±0.06 % (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)

◆ **Response Time**: Less than 10s for T_{90}
※(O_2, less than 12s)

◆ **Warm-up Time**: 10 min.
※(ambient temperature is not lower than 20℃)

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

◆ **Net Weight**: 6.0Kg

◆ **Outer Dimension**:
260mm(W) × 180mm(H) × 450mm(D)

★ The specifications will be changed without notification.