CLEAN SKY

Automobile Exhaust Gas Tester

For 2 gas EG1802-0000 (UREX-5000VII)

For 4 gas EG1802-5000 (UREX-5000VII-MC4)

The Transport Ministry Technical Standards Conformity Certificates issued by the Japan Automobile Transport Technology Association (JATA)

JATA-CO· HC-1

The advanced mechanism achieves high accuracy and usability.

Superior operability

■ Small and light.

- CLEAN SKY has a compact design of W250 X D335 X H145, and only weighs approximately 4kg.

■ CLEAN SKY is equipped with a large liquid crystal display with a back light.

- With the adoption of the large back lit liquid crystal display, you can easily read the measurement results.
- The contrast of the liquid crystal display can be adjusted to the optimum level during measurement.
- We adopted the easy-to-see design where the digital measurement values are enlarged to fill the whole liquid crystal instrument.

■ A user-friendly switch.

The Switch Units (except the power switch) are located in the front of the unit to enhance operability, so a user can operate the meter while standing.

■ The required warm-up time is as little as four minutes.

Measurement can be resumed within four minutes of the power being turned on. Furthermore, the time is displayed as a count-down until the warm-up time has been completed, so it can relieve your irritation. (The conventional technical standards stipulate that the warm-up time must be less than 4 minutes, while the new technical standards do not limit the maximum required time. However, the new standards stipulate a meter must complete the warm-up time, and satisfy the measurement accuracy before starting measurement.)

■ NO zero adjustment is required.

A new mechanism of the infrared method has been adopted, and the zero adjustment is unrequired in principle.

The photo shows the 2 gas type EG1802-0000

■ High-speed response.

With the adoption of the power pump, the super high-speed response (95% response within 10 seconds) has been achieved. A stable exhaust gas suction capability is maintained in the wide temperature range from low to high temperatures during measurement.

■ Energy-saving function.

The meter is equipped with an automatic stop function to return to the standby state when measurement is not implemented. The meter extends the life cycle of the pump and the filter and saves energy by automatically turning OFF the pump when the operation is unnecessary.

■ Automatic purge function.

When the meter finishes measurement, it checks the residual exhaust gas inside the measuring instrument, and automatically performs air purging, before returning to the standby state. When the meter resumes measurement, it performs air purging to prevent negative effects of the residual gas from the previous measurement. The measurement value will not be displayed while air purging is being performed.

CLEAN SKY is an exhaust gas tester to be used for testing, inspections, and adjustment of engines at automobile maintenance factories.

Easy maintenance

■ The drain is automatically emptied.

The drain is automatically emptied.A user does not need to check and empty the drain.

■ Easy to check and replace the filter.

- A resin pre-filter has been installed in the probe.The pre-filter is waterproof, and easy to replace. Because the filter case is translucent, it is easy to check the filter condition.
- The filters have been located upwards at the back of the main unit of the measuring instrument. The translucent cover makes it easy to check the filter condition and replace the filter.

■ Easy calibration.

The calibration operation has been semi-automated. Gas calibration is automatically completed by entering the concentration of the calibration gas with the operation keys, and inserting the calibration gas cylinder. Gas with either single or multiple components can be used for calibration. The function to notify of the calibration gas insertion completion has been added to the two-gas tester.

■ Easy dust filter maintenance.

A dust filter has been installed on the air intake to cool the main unit of the measuring instrument. The dust filter prevents dust in the atmosphere from entering the main unit. The filter can be removed and cleaned easily.

Specifications

Product number	EG1802-0000	EG1802-5000
Model	UREX-5000V II (for 2 gas)	UREX-5000V II -MC4(for 4 gas)
Adaptation criterion and certificate number	The Transport Ministry Technical Standards Conformity Certificates issued by the Japan Automobile Transport Technology Association (JATA) : JATA-CO・HC-1	The Transport Ministry Technical Standards Conformity Certificates issued by the Japan Automobile Transport Technology Association (JATA): JATA-CO・HC-1
Measurement components	Carbon monoxide (CO), and hydrocarbons (HC)	Carbon monoxide (CO), and hydrocarbons (HC), carbon dioxide (CO_2), and oxygen (O_2)
Measurement range	CO: 0 - 10.00vol% (minimum display: 0.01vol%) HC: 0 - 10000volppm (minimum display: 1volppm, however, when the value exceeds 2000volppm, 10volppm)	CO: 0 - 10.00vol% (minimum display: 0.01vol%) HC: 0 - 10000volppm minimum display: 1volppm (<= 2000volppm) 10volppm (> 2000volppm) CO_2: 0 - 20.0vol% (minimum display: 0.1vol%) O_2: 0 - 25.0vol% (minimum display: 0.1vol%)
Calculation display	—	Air excess ratio (lambda): 0.50 - 4.50 (minimum display: 0.01) (The value is calculated and displayed when the CO_2 concentration is 3vol% or higher) Air-fuel ratio (AFR) 10.0 - 30.0 (minimum display: 0.1)
Confirmation function	Detect that the probe has been removed with the CO_2 detection signal	Detect that the probe has been removed with the CO_2 detection signal
Indicator	Seven segment display & Organic Electro Luminescence display	Seven segment display & Organic Electro Luminescence display
Notification	Digital display	Digital display
Calibration	After inserting a calibration gas container, the measuring instrument configures the automatic sensitivity setting, and notifies of the gas insertion completion with a beeping sound and screen display	Span calibration (except O_2): After inserting a calibration gas container, the measuring instrument configures the automatic sensitivity setting (O_2 span calibration is automatically performed during air suction) Zero calibration (except O_2): Zero calibration is performed by pressing Run during nitrogen (N_2) suction
Automatic reset	Automatic measurement stop function with pre-set timer (select cancel, or configure a time between 10 minutes and one hour in increments of 10 minutes)	Automatic measurement stop function with pre-set timer (select cancel, or configure a time from 10 minutes, 30 minutes, or 60 minutes)
Fuel component ratio	—	hydrogen (H)/carbon (C): 1.00 - 4.99 oxygen (O)/carbon (C): 0.00 - 2.99
Power	AC100~240,50/60 HZ	AC100~240,50/60 HZ
Main unit dimensions	W250×D335×145mm	W250×D335×145mm
Weight	4 kg	4 kg

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Part of the machines is illustrated with optional extras available at extra cost. Technical modifications reserved.

- Please note that the specifications are subject to change without notice.
- For assistance or consultation, please contact our distributor or an ALTIA branch near you.
- ALTIA Website: http://www.altia.co.jp

Distributor

⚠ Caution

For your safety, Please read the "Instruction Manual" before you use.