



PORTABLE OCTANE AND CETANE TESTER

Portable Octane and Cetane Tester TT-131

Portable Octane and Cetane Tester TT-131 utilizes advanced international integrated circuit technology and precision inductive components.

Portable Octane and Cetane Tester TT-131 performance and specifications meet or exceed the highest domestic standards. This device allows for the rapid, convenient, and precise testing of the octane value of gasoline without damaging the sample. It is suitable for both laboratory and field testing. The instrument incorporates artificial intelligence technology, providing strong functionality and ease of use.

APPLICATIONS

The primary application of the Portable Octane and Cetane Tester TT-131 is to provide rapid, convenient, and precise field and laboratory testing of fuel quality. It is a non-destructive instrument designed to measure the octane number of various types of gasoline (motor, methanol, ethanol, etc.) and the cetane number of various diesel fuels (general, blended, biodiesel). Its portability and versatility make it an ideal tool for quick quality verification at different points in the fuel supply chain.

Key Industries

- **Petroleum Refining:** Refineries can use this portable tester for quick spot-checks on production streams and at blending terminals to ensure the final product meets the required octane or cetane specifications.
- **Fuel Distribution & Terminals (Midstream):** Fuel distributors and terminal operators rely on this instrument for rapid quality assurance. It allows them to quickly verify the quality of incoming shipments and outgoing deliveries, helping to prevent fuel cross-contamination and ensure product integrity.
- **Regulatory Compliance & Fleet Management:** Government agencies (like customs or environmental standards bodies) can use this for field inspections to enforce fuel quality standards. Additionally, large fleet operators (e.g.,

trucking, construction) can use it to test fuel deliveries to their private depots, protecting their high-value engines from off-spec fuel.

FEATURES

- It is suitable for measuring the octane value of motor gasoline.
- The instrument includes a variety of product inspection modes: gasoline octane value mode, general diesel mode, blended diesel mode, methanol gasoline mode, ethanol gasoline mode, stone brain gasoline mode, aromatic gasoline mode, and five additional custom modes; diesel cetane value mode, general diesel mode, biodiesel mode, and five additional custom modes.
- The instrument features an automatic proof function and a correction feature, allowing for one-point, two-point, and three-point corrections using standard oil, and it can automatically adjust for system errors.
- The instrument is equipped with a temperature adjustment function that can regulate the octane value according to specific conditions.
- The instrument has an EL backlit display, making it convenient for use in dark environments.
- The instrument includes a directive function for displaying remaining battery energy.
- The instrument has automatic sleep, auto power-off, and other power-saving functions. It can be connected to a micro printer (manufacturer's designated model) to print measurement reports directly.
- The measured data can be stored and printed.
- The instrument is small, portable, and highly reliable, making it suitable for harsh operating environments. It is resistant to vibration, impact, and electromagnetic interference.
- It can display the measuring time.

Working environment

- The instrument comes with a specially designed portable case, allowing for the testing of engine fuel in both oil fields and laboratories under various conditions. The instrument's operating conditions and index range include:
- Operating temperature (environment temperature): -5°C to +30°C
- Relative humidity: 80% ($\leq 25^{\circ}\text{C}$)
- Atmospheric pressure: 84 to 106 KPa
- Power supply: DC (AA) 6V

TECHNICAL SPECIFICATIONS

1. The instrument comes with a specially designed portable case, allowing it to test engine fuel in the oil field or laboratory within its operational conditions and index range.
2. Main specifications include:
 - Working temperature (environment temperature): -5°C to +30°C
 - Relative humidity: 80% ($\leq 25^{\circ}\text{C}$)
 - Atmospheric pressure: 84—106 KPa
 - Power supply: DC (AA) 6V
3. TT-LAB 132: Portable cetane analyzer for diesel
4. TT-LAB 133: Portable octane analyzer for gasoline



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