HST-L-V6J3 Portable Rapid Integrated Oil Quality Analyzer

This portable rapid comprehensive oil quality analyzer features a 7-inch touchscreen, built-in temperature control, defoaming device, and power supply. It achieves precise temperature control up to 40℃ and rapidly measures parameters such as kinematic viscosity, density, dielectric constant, temperature, trace moisture content, water activity, and contamination level. It can promptly detect problems such as lubrication contamination and even wear, providing early warning and prevention of malfunctions, extending equipment life, optimizing maintenance plans, saving costs, improving production efficiency, and protecting the environment. This is crucial for both businesses and users.

Features:

● Embedded ARM high-performance processor, 7-inch 1920*1080 resolution touchscreen display, intelligent automatic viscosity measurement device.

● High Measurement Accuracy: Measurement accuracy is highly consistent with large laboratory instruments. It features a built-in heating module and provides parameters for the kinematic viscosity (measured value, ASTM D7279, D445 (corrected)), density, dielectric constant, temperature, trace moisture, water activity, and contamination level of oil at 40℃.

● Simple Operation: A touchscreen display and operation prompts assist in the entire measurement process. The Chinese interface allows users to simply prepare the oil sample and follow the operation wizard to obtain the results.

● Compact and Lightweight: Powered by a lithium battery, it poses no high-voltage hazard to operation or the instrument. The built-in battery (working time of at least 4 hours) makes it easy to carry and allows for rapid on-site measurement of oil viscosity changes.

● Analyzes trend curves of the same oil product parameters; the system is easy to upgrade; oil product management settings are simple.

● High-precision temperature control unit with PID self-tuning; adjusts the heating rate in real time according to ambient temperature, ensuring high temperature control accuracy.

● Can measure temperature even when ambient temperature exceeds 40℃; built-in cooling module.

● Particulate contamination level measurement uses the light-shielding method principle; the sensor has high precision and strong anti-interference capabilities.

● Built-in standards such as GB/T14039-2002 (ISO4406:1999), NAS1638, GJB420A, and GJB420B; user-required standards can also be built-in.

● The particle counter sensor has 6 arbitrarily settable particle size channels for measurement accuracy.

● Built-in printer for direct printing of test reports; input of numbers, letters, and Chinese characters is supported during printing.

Screen	7-inch capacitive touchscreen;		
Heating Module	Built-in 40℃ heating module.		
Measurement Range/Accuracy	Viscosity	10-500 cSt(40℃)	≤±3%
	Density	600～1250kg/m	≤±3%
	Temperature	0~100℃	±0.3℃(25℃)
	Dielectric constant	1～6	≤±3%
			±0.02aw(0~0.6)
	Water activity	0~1aw	±0.03aw(0.6~0.9)
			±0.04aw(0.9~1)
	Water content	0~1000ppm	±10%
	Fouling level	1～100μm 4~70μm(c)	±0.5 pollution levelsRSD<5%
Measurement Time	Initial measurement time: 15 minutes; continuous measurement time: 3-5 minutes per measurement; no sample preparation required; temperature range: -10-50℃		
Operating Temperature	-10-50℃		
Operating Humidity	Up to 90% efficiency, non-condensing		
Trend Analysis	Features curve display and multi-curve comparison analysis of different samples; alarm values can be set, and a red alarm line indicator is provided.		
Battery	Built-in rechargeable lithium battery (>4 hours), ensuring mobile operation.		