Organic liquid / oil handheld instrument moisture detector

Model: APEX-LJ857

Standard: GB/T 260-77

Introduce: organic liquid / oil handheld instrument moisture is the use of high-frequency electromagnetic waves to be absorbed by a substance made of the princip...

Detailed product information

organic liquid / oil handheld instrument moisture is the use of high-frequency electromagnetic waves to be absorbed by a substance made of the principle of energy attenuation. Since moisture on the microwave absorption coefficient and oil on the microwave absorption coefficient of the ratio of up to 75:1, when the high-frequency electric field is applied to the oil, due to the presence of moisture will affect the phase and amplitude of the high frequency electric field, influence the extent of related to the moisture content.

Around the world for many years with similar technology, but each specific test methods differ. The most typical method TDR, and dynamic phase Phase dynamic.MS1204 used to explore the wonderful technology of Chinese scientists for many years, received the highest repeat accuracy in oil moisture detection applications, and to a large extent, overcome the impact of the the oil difference and salinity. Moisture testing technology is unique in the world today.

Uses:
This instrument applies to oilfield production units daily water laboratory, the refinery crude water into the plant on-site laboratory, a quick test of user acceptance of the burning oil heavy oil, oil water on-site laboratory, and other occasions, oil and organic compounds moisture.
How to use the normal test, simply insert the sensor in the sample, turn on the power switch, the test value is displayed in the LCD monitor
One simple oil users:
Whether in the field or in the laboratory, the first uniform mixing oil and water content, and then insert the sensor, then open the the instrument upper-left corner of the power switch, and after a few seconds, the display shows the test results. Power readings Close. It takes about 10 seconds
Multi-table classification test users:
Open the instrument oil at calibration table, the first observation of the "C #" label in the upper right corner if you want to test the change you want to test the oil calibration table for the current calibration table, and then do the above test. (In other calibration tables see 1.2 "HBD5m moisture tester instructions)
When you want to use the instrumental record, find the average, print and other functions, please carefully read the relevant sections of the the "HBD5m moisture tester instructions for use".
Preparatory work before
First use, first check the accuracy of the test data, if it is not accurate enough, and must be re-calibrated with user samples. The relevant calibration concepts and methods see "HBD5m moisture tester user manual 2.
The instrument in the factory, the Institute are according to the user as far as possible the same oil sample preliminary calibration. However, due to the differences of the sample and the standard method, and sometimes may be provided with the user's site laboratory can not be completely consistent. But can be achieved through the user re-calibration, technical indicators.
Instrument maintenance:
1, the instrument is equipped with a rechargeable battery. Each charge of about 3-5 hours, 6-10 hours can be used continuously. 3 days of standby time. The battery voltage is low, the instrument will be intermittent issue a "beep" sound and prompted alarm on the monitor at the same time.
2, the instrument first hired ,1-3 requires re-calibration time, once every six months - 1 year after calibration.
3, lubricating oil, transformer oil, refined oil trace moisture test reference: HBD5 IMS2100 liquid trace moisture tester.
Packing size: 350x550x150mm

Basic functions

1, based on the the BD5 intelligent electronic unit, complete interface settings
2,2 * 20 LCD display, test temperature, activity, moisture content at the same time
Support both RS232 and RS485 communication interface, initial preparation STIMcom protocol, Modbus protocol can also choose
4, alarm function

Technical parameters

Test conditions	uniform standards
Repeat accuracy	± 0.5% FS
Packaging	Aluminum luggage
Accuracy	± 2.0% FS
Sample temperature	-40 to 85 °C
Sample pressure	N: <0.3Mpa
Weight	<0.7kg
Response speed	<15sec (25 ° C)
Chassis	NEMA 2
Long-term stability	± 1% 5 years
Ambient temperature	-10 to 60 °C
Ambient humidity	10-90%
Total power consumption	Max <150mW
Power supply	HBD5 NiCd batteries, working for four consecutive hours, the standby one week
Electrical Explosion levels	Ia, intrinsically safe design. Can be used for Class 1, Group A / B / C / D; Class II, Group E / F / G environment
Sensor size	24 * 240
Slide the mounting thread:	ZG1 "or 1" NPT
Tester Size	98 * 32 * 185