



SmartTest Series
Hand held liq-MS2100 Moisture Meter

Trace Moisture Analyzer

Ref: H-IMS2123
Version: 2002-02-26

Ideal for low budget laboratories and smart field test for pure liquid application

- **Trace moisture smart test**
- **Temperature compensation**
- **Scientific algorithm for high accuracy**
- **Accurate and reliable, rugged design**
- **Quickly response, <15 sec at typical cases**
- **Self diagnostic, professional intelligent, Menu-driven digital user interface**
- **Auto diagnostic and alarm**
- **Data log of measurements, read and print out, or download to PC supported**

Advantage

Economic and sensitive.

Shortcomings

Need start from zero state, and 10 mins to be stable for each test.

Features

- Not necessary to calibrate
- High accuracy
- Fast response
- Stable, low drift performance
- Chemically resistant

Applications

- Transformer Oil
- Machine oil or lubricants
- Other organic liquid chemicals
- Moisture leak detection

Note: For more chemicals application rather than oils, please contact our engineer for verification.

Technical specifications

- Measurement range:
Moisture: 0-120 ppm Oil @ 20°C
- Accuracy: $\pm 2\%$ of reading, 0-1.00 aw, 25 °C;
- Operating temperature: -40 to 85/140 °C
- Working Pressure: N: <0.3 Mpa; p: <1.0 Mpa
- Sensor Interchangeability: $\pm 5\%$ of reading
- Hysteresis $\pm 1.2\%$ of reading
- Repeatability $\pm 0.5\%$ of reading
- Response Time: 15 sec typical at 25 °C
- Stability: $\pm 1\%$ of reading /typical at 0.50 aw in 5 years

Call: (86) 10-8264.0226; 8264.0225; Fax: (86)10-8264.0221; 8264.0238

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- MS2123-01 Possibly detect liquids: Ammonia Hydroxide, Acetone, Ethanol, Methanol, Formaldehyde, Benzene, Toluene, Xylene

Compatibility to Standard

Consistent with ASTM D-4928 after calibration in oil moisture test Test Method.

Prepare the sample in one 100 to 200mL

Measuring Method

Configuration	Introduction	Usage
ERH/ Non-contact	Insert the sensor into limited depth, so that the edge of the cup was immersed, but sensor is in top space air. This is condition for Non-contact test, suitable for rigorous solvents;	Liquid
Direct/ Insertion	Directly insert the sensor into liquid. Then read the data in chosen time. Usually 20seconds	Liquid

Application Suits

Model	Technical information
HBD5IMS2123-010-N14	Repeatability: $<\pm 0.5\%$ FS; Sample temperature: -40 to 85°C
HBD5IMS2123-022-N14	Repeatability: $<\pm 1.5\%$ FS; Sample temperature: -40 to 140°C

Configuration for Moisture Analyzers

Basic Parts List for the Analyzer Suit

Items	Model	Available Type	Remarks
Analyzer	H-BD5		included
Moisture Probe	H-MS2123N14	selection	included
Battery			included
Charger			Specify the user local power standard, 110 V or 220V AC
Packing Case			Included

Standard Optional Probe

HMS2123N probe	Specifications
MS2123-01-M12T85	Repeatability: $<\pm 0.5\%$ FS; Sample temperature: -40 to 85°C Size: Dia.: $\varnothing 14$; Length: 120mm Weight: 150g
MS2123-022-M12T140	Repeatability: $<\pm 1.5\%$ FS; Sample temperature: -40 to 140°C Size: Dia.: $\varnothing 14$; Length: 240mm Weight: 300g

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