



Chemical Instrument

Hand-Held BD5+ MS1204 series

Smart Moisture Teller

for liquid, slurries applications

Introduction Version 2002-11-28

- Instant display of moisture, when the sensor inserted into the samples
- Extended concentration test of any mixed, mingled, blend materials, just by user calibration
- Up to 24 groups of measurements datalog
- Average and reading available;
- Moisture rectified by temperature, Assure accuracy up to 80 °C ;
- Software calibration, very convenient to digitizing;
- Support micro-printer, and RS232/485 serial communication to IEEE1451 and Modbus
- You can test up to 8 kinds of substances with one meter's cost

These new moisture meters combine simplicity with advanced meter functions to provide you with fast, accurate results. Available in many sensors to compliment varying application, as to liquids, slurries and powders.

BD5m measures sample temperature from -20-80°C----- automatic temperature compensation by software calibration chart. This meter supports 8 calibration chart at the same ADC hardware channel, so that it can suits to measure 8 kinds of substances exactly-----only by one key selection of charts. User calibration could make the

test more accurate, ignoring the influences by sample composition and conditions.

MS 1204 moisture sensor is advanced microwave transmission attenuation technology, it can mostly reduce the influence of sample composition and water TDS that seriously trouble other moisture meter, specially of those with electric capacity principle. Actually. MS1204 is also a good concentration sensors for many kinds of mixture of mix, mingle and mix. The New BD5 analyzer will support your wide application, just by your sample calibration.



Specifications:

Sensor Type	Microwave loss
Range	10ppm—100%
Resolution	0.01(N10);0.1%
Accuracy	±0.1-±0.5%FS
Response time	< 100 ms
Sample temperature	-20—100 °C
Circumstance	< 75% RH
Circumstance	0—75°C (Special by order)
Safety	Intrinsic
Power	DC 9V /9V Ni-Gd > 4 hours
Meter Size	98W×180H×35T (mm)
Sensor Size	Dia 24×300 (mm, N)

Liquid and Slurries Moisture Applications:

- 100ppm Low limit moisture sensor **MS1204nL** is just good to check insulation oil in plant mechanic and electricity devices. And also smart way to test organic chemicals in situ test, when importing materials, business deliver, wherever.
- Other **MS1204N/Dip/ext** series are all normal moisture sensors. Widely used in any industries process and material's check, business transfer, and other in situ and quick test fields. as in oil field, refinery, fuel business, oil fuel users; It is very good to monitor all kinds of organic's and some inorganic materials too. Chemicals factory, Food industry, pharmacy plant, wherever needed, and whatever liquids.
- **MS1204PotScan** and **PotGauger** are designed to gauge the pot of moisture and quantity. PotScan can gauge moisture and volume. PotGauger is enhanced with densimeter, so can calculate weight quantity. Naturally measures temperature, depth, density, and moisture in a assembly sensor.

Standard Suit

	Organics	Oils	Mixture of organic & inorganics	inorganics	Range	Repeatability	Applications
HBD5-MS1204N	√	√	√	√	0.1-30/60/100%	0.1%abs or 2%Rel whichever is great	1.3m wired, handhand. For general labor field test of general oil or other organic liquids,oils, and some Mixture of organic & inorganics
HBD5-MS1204N10	√	√	√	√	10ppm-10%	10ppm or 2%Rel	1.3m wired, handhand. For general labor field test of petroleum products, such as lubricants, machine oil, transform oil, insulator oil.
HBD5-MS1204Bar	√	√	√	√	0.1-30/60/100%	0.1%abs or 2%Rel whichever is great	1.6m bar, for tank truck or train tanker; Organics, Oils,
HBD5-MS1204Dip	√	√	√	√	0.1-30/60/100%	0.1%abs or 2%Rel whichever is great	1.3m-3mwired, for deep tank truck or train tanker; Organics, Oils,
HBD5-MS1204Dipext	√	√	√	√	0.1-30/60/100%	0.1%abs or 2%Rel whichever is great	3m-100mwired, for oil tanker or big pot test Organics, Oils,

Standard Parts List: (Complete solution to field smart test or lab usage) :

Items	Model	Type	Quantity	Unit	Included
Analyzer	H-BD5	m	1	set	1
Sensor	H-MS1204		1	set	1
Recharger	DC12V		1		1
Cell	9V		1		1
Package			1		1
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Accessory:

Items	Model	Type	Quantity	Unit	Sum
Mixer				set	120W/60rpm
Mixing bar				1	SS
Heater				suit	220V AC, 900W
Heater controller				1	
Sampler				1	With Special Holder
Micro printer	TPuA24p			set	3m wire and software included
Printer DC Power	DC5V/3A			1	DC5V ,5A
Printer paper			12	reel	standard

Ordering information:

- Submission of <User's Application Form> is recommended for evaluation of performance and application guarantee possibility;
http://www.fullsense.com/Products/Moisture/IMS_AS_E.doc
- Evaluation service is recommended for application out of Applicability guarantee:
- Free calibration for standard oil sample specified.

Call: 010-8264.0226; 6257.3897; 8911.1814; Fax: 010-8264.0221; 6252.3517;
P. O. Box : 603 BDTI Beijing, P.R.CHINA 100080 Web:<http://www.fullsense.com/>