



Chemical Instrument

SmartTest Family
Hand Held BD5 VS1742

Viscometer

Ref: HVS1742IntE
Version:2002-01-13

Professional Viscosity Measurement

- HBD5VS Embedded CPU Analyzer, full intelligent machine operation.
- Menu driven setup
- Read out, as inserted
- Smart test at any temperature, of any liquids
- Normal viscosity and conversion to Standard viscosity at pointed temperature
- Units conversion
- 100s Data log. Auto recording or manual selection
- Memo read out, and print supported
- Versatile connection for any sampler or devices in lab or fields
- RS232/485 communication to PC
- Concentration test function
- Liquids concentration analysis

Advanced Sensor Design

- ◆ No moving parts or seals, minimizes maintenance
- ◆ Unaffected by vibration
- ◆ Insensitive to flow and pressure variations
- ◆ Wide range of materials available to suit most applications
- ◆ Approved for use in hazardous areas

For speed, accuracy and reliability.

**Test at any time anywhere,
any temperature of any liquids**

H-VS1742 is the best choice

HVS1742 is a portable viscometer for use in the lab, factory or field.

The solid stainless steel sensor is simply immersed into the fluid to obtain a reading of viscosity. There is no limit on the size of vessel or fluid volume - just sufficient to cover the tip. Simply wipe clean after use.

Readings are given instantly on a LCD digital display. The meter and probe are lightweight, and combined with a long battery life makes the instrument truly portable.

The probe has no moving parts, seals or bearings and is well suited to everyday use in an industrial environment.



Functions

- **Normal Viscosity Test**

The H-VS1742 gives professional viscosity readout. No matter what is, and at what temperature it is

- **Standard Viscosity Test**

Convert the tested epi-viscosity into the equal data at pointed temperature. User setup the standard temperature.

This function is supported by viscosity ~ temperature relations of the defined materials. It is always varies from different substances. Three ways were embedded into the analyzer: User input, user establish, using scientific model.

- **Units Conversion**

Dynamic viscosity and kinematical viscosity

Modern Electronics

- BD5 CPU based STIM, perfect design with complete instrument functions
- 4*5 20 Keypad, and 2*20 LCD display
- RS232 serial port always available
- RS485 with STIMcom or Modbus protocol
- Rechargeable Li battery power supply, 1 week stanby
- Intrinsic safe design
- Serial printer supported
- Data record, store, and readout
- IAP program update support possible in future

For more information about BD5/5 electronics, please refer to URL: <http://www.fullsense.com/Products/Meters/>

Typical applications

- Fiscal metering
- Slurries
- Food processing
- General chemicals
- Hydrocarbons
- Resource management

Specifications

- Viscosity Accuracy: +/-1 % of reading
- Viscosity Repeatability: +/- 0.3%of reading
- Complete Viscosity Range: 0 to 10000 cP, high range possible with accessories
- Temperature Range (sensor): -40°C to 100°C
- Pressure Range: < 1.0MPa (standard)
- Process Connection: Accessories available to suit
- Overall length: 360mm
- Wet length/sensitive: 180/70mm (default)
- Weight: 1.6 kg
- Materials: All 316SS Hastelloy C22, user specify support
- Safety Certification: Safe Area
- Environmental Rating: IP68
- Note: Extended temperature and pressure range instruments also available
- Processor Unit: BD5xMD
- Power Supply:24 v d.c. <100mA (including transducer)
- Serial port: RS232/485
- Network: STIMcom or Modbus

Package: 465*370*112 (mm)

Delivery Weight: 2.5-3 kg

BIG DIPPER TECHNOCHEM INSTITUTE

Call: (86) 10-8264.0226; Fax: 010-8264.0221; 6252.3517;

P.o.Box: 603 BDTI , Beijing, China 100080

<http://www.fullsense.com/> Email: sales@fullsense.com