

## Automatic Electronic Falling-Ball Viscometer

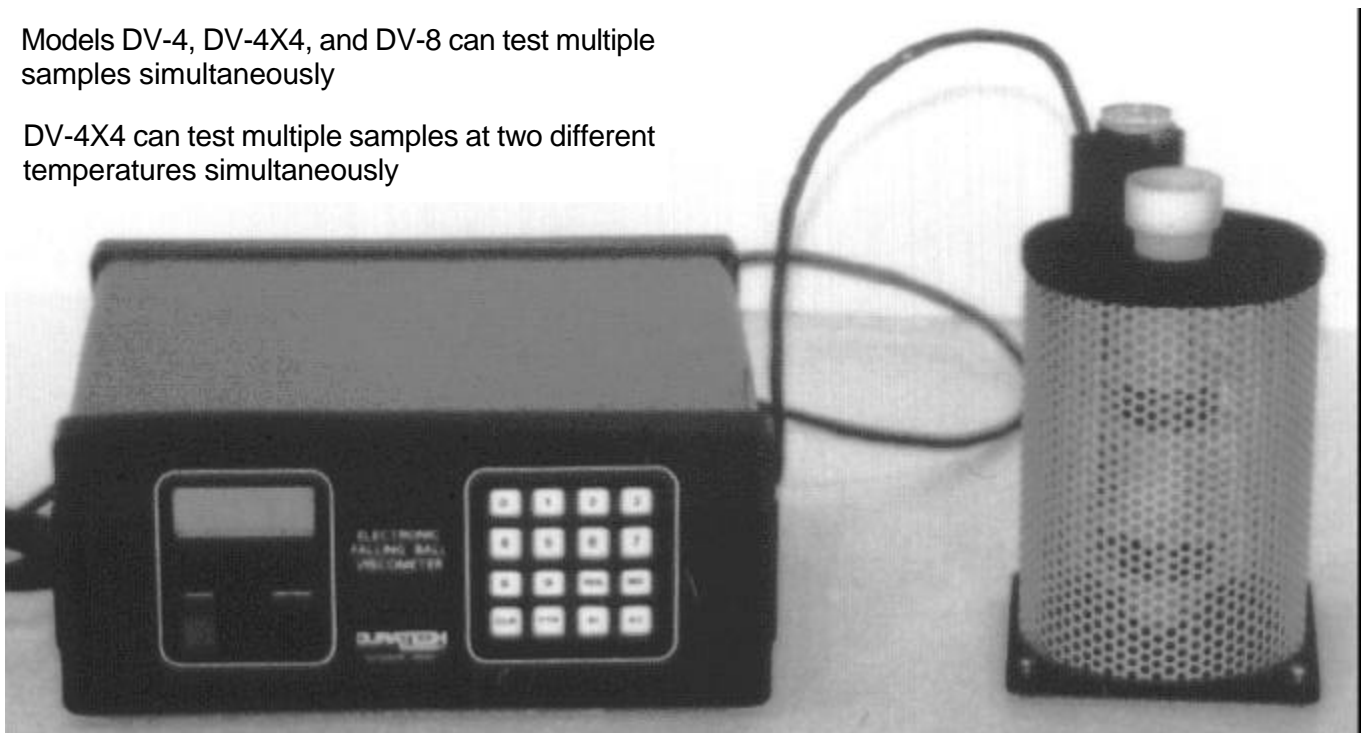
### Features/Benefits

- Wide viscosity range from 3 to 50,000 poise
- Accuracy better than  $\pm 2\%$ , repeatability better than  $\pm 0.75\%$
- Can operate in constant temperature oil bath from  $-20^{\circ}\text{C}$  to  $100^{\circ}\text{C}$  (up to  $160^{\circ}\text{C}$  for high temperature model)
- Suitable for opaque and transparent fluids
- Reusable/disposable sample tubes and balls
- Results can be transmitted to host computer or optional printer via an RS-232 serial interface
- Can display results in poise, centipoise, stokes, or centistokes
- Little clean-up required
- Reliable and durable in less than ideal conditions
- Models DV-4, DV-4X4, and DV-8 can test multiple samples simultaneously
- DV-4X4 can test multiple samples at two different temperatures simultaneously

### Serving the following industries:

- Adhesive
- Cement
- Ceramic
- Chemical
- Coating
- Cosmetic
- Food
- Medical
- Oil
- Paint
- Polymer
- Printing
- Pulp/Paper
- Resin
- Textile
- ...and more

## NEW & UNIQUE



# Operation

The falling-ball method of measuring viscosity is known for its ease of operation and extreme accuracy. This instrument greatly enhances the method through automatic electronic ball sensing and micro-computer control.

To make a measurement, the operator places the sample fluid in the sample tube and inserts it into the test station. The operator then drops a steel ball through a ball guide, which centers the ball as it drops into the sample tube. As the balls falls, it is automatically detected and its fall is timed. An audio signal alerts the operator when the measurement is complete. The operator can then read the result directly in poise, centipoise, stokes, or centi-stokes. Results can be sent to a printer or computer via a built-in RS-232 interface.

The viscometer can measure both transparent and opaque fluids. The plastic sample tubes and steel balls can either be cleaned and reused, or disposed of.

Four standard models in two different voltages are available. The DV-1 includes a controller and a single tube test station. The DV-4 includes a controller and a four tube test station. The DV-4X4 includes a controller and two four tube test stations. The DV-8 includes a controller and an eight tube test station.

The four tube, four by four tube, and eight tube models can all test multiple samples simultaneously.

The test stations are designed to be immersed in an oil bath to maintain a constant temperature. Both four tube test stations with the model DV-4X4 are designed to be immersed in two separate oil baths so that viscosity can be measure at two different temperatures simultaneously.

Model No.	Item Description
DV-1	Electronic Viscometer with single tube test station
DV-4	Electronic Viscometer with four tube test station
DV-4X4	Electronic Viscometer with two four tube test stations
DV-8	Electronic Viscometer with eight tube test station
ST-10	Sample Tube (qty. 10)
STC-10	Sample Tube Cover (qty. 10)
SB-10	Steel Ball (qty. 10)
BG-1	Ball Guide (qty. 1)

Please specify 115VAC, 50/60Hz or 230VAC, 50/60HZ power.

Also available is a high-temperature version for use with hotbaths up to 160°C

## Dimensions:

Single Tube Test Station: 5.5"D x 5.5"W x 10"H

Four Tube Test Station: 8.5"D x 8.5"W x 10"H

Eight Tube Test Station: 8.5"D x 17"W x 10"H

Polyethylene sample tube: 1.260 ID, 150mL

Controller: 11"D x 12.5"W x 5.5"H

Steel Ball: 0.375" dia.



Phone: (031)479-4211/2 e-mail: [jsi@jsits.com](mailto:jsi@jsits.com)  
Fax: (031)479-4213 <http://www.jsits.com>