

SimpleVIS®

Portable Automated Kinematic Viscometer

For Direct Kinematic Viscosity of Transparent & Opaque Liquids with Near ASTM D445 Precision
ASTM D7279

SimpleVIS® is a single sample, portable viscometer for on-site testing. With near D445 precision, it is easy to use, rugged and fast. Available viscometer tubes cover a viscosity range of 2 mm²/s (cSt) to 700 mm²/s (cSt) at two selected temperatures between 40 °C and 100 °C.

Common Applications

- Product chain of custody monitoring
- Contamination checks
- Point of use testing
- Industrial lube blending
- Packaging & distribution of petroleum products
- Petroleum terminals
- Remote used oil predictive maintenance
- Power plant applications
- Remote mining applications

Product Features & Benefits

Automated and precise determination of direct kinematic viscosity at any two temperatures between 40 °C and 100 °C*

- Provides kinematic viscosity measurement without the need to correlate dynamic viscosity data
- Viscosity range
 - Standard range tube provides viscosities from 10 to 700 mm²/s (cSt) at 40 °C and 5.5 to 200 mm²/s (cSt) at 100 °C
 - Low range tube provides viscosities from 2 to 140 mm²/s (cSt) at 40 °C and 100 °C
- Follows ASTM D7279 and offers near ASTM D445 precision due to exceptional temperature control (± 0.05 °C)
- Rapid cycle time of 3 to 5 minutes from sample injection to test result

Portable, self-contained and dependable

- Weighs approximately 10 lb and takes up less space than a coffee maker
- Does not require a PC or any external utilities
- Optional power inverter enables the instrument to run off of a 12 VDC vehicle charging port
- Rugged, reliable design has only two moving parts

Simple & safe operation

- Graphical touch screen provides step by step test instructions
- Factory calibrated; no gauges or valves to adjust
- Solid-state temperature control eliminates need for liquid bath
- Intrinsically safe unit operates on 12 VDC power
- Optional printer available

Economical

- Low cost of ownership
- Requires only 10 to 15 mL of solvent and 0.5 mL of sample per test
- No sample vials required; sample is injected directly into the instrument



Everything required to begin testing is included except the sample and solvent!

* Custom calibration at any two temperatures between 40 °C and 100 °C is available on request



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SimpleVIS[®] Portable Automated Kinematic Viscometer

Ordering Information

SimpleVIS[®] Portable Kinematic Viscometer consists of the viscometer unit, AC/DC adapter, power supply cord, pipettor, waste bottle with media cap, solvent container, waste plug and tubing, cleaning syringe assembly, certified viscosity check standards and instructions. The unit is pre-calibrated at 40 °C and 100 °C but can be calibrated at any two temperatures in between on request. A computer is not required.

Description	Part #
100 VAC to 230 VAC, 50/60 Hz	9725-S10

Options

Alternative temperature calibration (other than 40 °C and 100 °C) is available for an added charge at the time of ordering.

Accessories & Consumables

Description	Part #
Compact dot matrix printer with cable and power supply	82.0067
Printer paper (roll)	02.0016
Printer ribbon (each)	82.0059
Dostmann digital thermometer	61.5600
Thin smart probe (for use with Dostmann digital thermometer)	61.5602
Hard field-portable case	82.1008
Pipettor	82.0055
Reusable pipette tips (10/pk)	82.0054
Pipette seals (10/pk)	82.0056
Pocket power inverter (100 W) for 12 VDC vehicle charging ports	82.0083
Solvent container/wash bottle	82.0076
Cleaning solvent (4 x 450 mL bottles)	82.0210*
Cleaning solvent (450 mL bottle)	82.0200.016*
Certified viscosity check standards for 40 °C/100 °C (three 4 oz bottles)	82.0068
SimpleVIS certified viscosity reference standards	see Viscosity Standards brochure

* NOTE: Hazardous shipping fees may apply

Product Specifications

Dimensions (W x D x H)	12.8 cm x 35.6 cm x 30.4 cm (5.0 in x 14.0 in x 12.0 in)
Weight	4.6 kg (10.2 lb)
Shipping dimension (W x D x H)	48.3 cm x 48.3 cm x 20.3 cm (19.0 in x 19.0 in x 8.0 in)
Shipping weight (with all items)	9.5 kg (21.0 lb)
Max. throughput	20 tests/hr
Sample capacity	1
Viscosity range	2 mm ² /s (cSt) to 700 mm ² /s (cSt)* *Depending on tube selection and temperature
Test accuracy	<3% of measured value, calibrated
Test repeatability	<2% of measured value, typical
Temperature range & accuracy	40 °C or 100 °C* (± 0.05 °C) *Custom calibration at any two temperatures between 40 °C and 100 °C is available on request
Minimum sample/solvent volume	Sample volume: 0.5 mL per test Solvent volume: 10 to 15 mL per test
Solvent compatibility	Internal wetted components compatible with n-heptane only* *Upgrade available for use with acetone
Operating conditions	15 °C to 30 °C, 10% to 75% relative humidity (non-condensing), Installation Category II, Pollution Degree 2
Electrical specifications	Input power: 11 to 13 VDC at 5 A peak AC/DC adapter: 100 to 230 VAC, 50/60 Hz, 100 watts power consumption
Compliance	CE Mark; EMC directive (2004/108/EC); Low voltage directive (2006/95/EC); HI-POT (1900 VDC, 60 sec.); ROHS
Data output	RS-232 via DB9 connector

CANNON Instrument Company[®] provides a variety of physical property testing equipment and consumables (vials, bath fluids, and reference materials) for your testing needs. To learn more, contact sales@cannoninstrument.com.



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