

Microprocessor Based Digital Penetrometer

microprocessor based digital penetrometer

- Tests the consistency of lubricating greases, petroleum waxes, bitumens, pastes, creams and other solid to semi-solid products
- Automatically timed operator programmable penetration measurements
- Motorized placement of penetrator on sample surface
- Large LCD to display all functions
- RS232 port for data transfer
- Full measurement range of 0-620 in 1/10mm scale or 1/100mm scale
- Rechargeable battery or AC operation
- Large, removable base accommodates grease worker cups and other ASTM and non-standard sample containers
- Complete selection of penetrometer cones, needles and accessories for petroleum products testing and for a wide range of other applications
- Conforms to all ASTM, IP, ISO 9001 and related specifications for penetrometers

Microprocessor based penetrometer loaded with advanced features to provide ease of operation and highly reproducible consistency measurements of petroleum products. Microprocessor control provides a full range of measurement and reporting options, and operation is simplified by four user programmable presets that facilitate lowering the penetrator tip to the sample surface.

Automatically timed penetrations—The penetrometer defaults to the standard ASTM interval of 5.0 seconds, or the operator may conveniently program a different interval in the range between 0.1 and 9999.9 seconds (in 0.1 second increments). A curing or temperature stabilization period may also be programmed by the operator (to delay the release of the penetrator into the sample) and for added convenience all selected parameters are retained in memory and automatically repeated in subsequent tests until changed by the operator. Separate keypad controls for each parameter simplify operation Penetration and delay intervals count down on a large, easy to read LCD on the head of the unit.

Convenient measurement and reporting options—Penetration measurements in the full range of 0 - 620 in 1/10mm scale are reported in either 1/10mm or 1/100mm increments at the operator's option. For quality control testing, a penetration range can be entered into memory prior to testing. If a test result falls outside of the programmed range, an audible signal and visual error message alert the operator of a failed sample. Test results are displayed in digital format on a large LCD readout on the head of the penetrometer and can be communicated to a printer or computer via a built-in RS232 interface.

Simplified penetrator tip placement—Correct placement of the penetrator tip on the sample surface is essential for accurate penetration test results. The Koehler Digital Penetrometer has four operator programmable presets that lower the penetrator to the sample surface height at the touch of a button, greatly simplifying the process to ensure reproducibility. A fine adjustment button permits slight adjustments as needed. Full manual operation is also available with the use of coarse and fine push button controls and built-in magnifier and illuminator arms. When testing electrically conductive samples, a built-in circuit senses the sample surface for automatic placement. After testing, the penetrometer head returns to a raised position at the touch of a button to facilitate cleaning of the penetrator and changing of the sample.

More convenience features—The detachable machined base provides a large platform to accommodate a wide range of sample containers and constant temperature cylinders. It removes easily to permit the head assembly to be reversed (for use with a constant temperature bath) or mounted directly to a bath housing or other location. A built-in rechargeable battery pack permits field operation and provides back-up in the event of power interruption. Battery recharges automatically during operation of the penetrometer on standard AC electrical service.



K95500 Digital Penetrometer

specifications

Conforms to the specifications of: ASTM D5, D217, D937, D1321, D1403, D2884, D4950, D5329; IP 49, 50, 179, 310; ISO 2137; DIN 51579, 51580, 51804; FTM 791-311, 791-312, 791-313; AOCS Cc 16-60; AACC 58-14; NFT 60-119, 60-123, 60-132, 66-004

Penetration Range: 0-62.0mm (0-620 penetration scale)
in 1/10mm or 1/100mm

Penetration Interval: Operator variable from 0.1 to 9999.9 seconds with automatic repeat function and 5.0 second default

Electrical Requirements

115V 60Hz
220-240V 50/60Hz

Dimensions l x w x h, in.(cm)

Base: 121/2x14 (31.7x35.6)
Overall: 12.5x14x18 (31.7x35.6x45.7)
Net Weight: 21 lbs (9.5kg)

Shipping Information

Shipping Weight: 27 lbs (12.3kg)
Dimensions: 2 Cu. ft.

Included Accessories

Standard Plunger, 47.5g
Weights, 50 and 100g

ordering information

catalog no.	description	qty
K95500-00000	Digital Penetrometer, 115V, 60Hz	1
K95590-00000	Digital Penetrometer, 220-240V, 50/60Hz	

accessories

K19552	Calibration Kit - Consists of 0.500, 1.000 and 2.000" gauge blocks with calibration certificate traceable to NIST
K19553	Calibration Kit, Metric - Consists of 12.5mm, 25mm and 45mm gauge blocks with calibration certificate traceable to NIST
K95573-00000	Plunger, 15g - For use with K20200, K19800 and K20300 Cones
K95519-00000	Plunger, 6.9g - For use with K20900 Cone
K95577	Standard Plunger, 47.5g
K19587	Loading Weight, 50g
K19588	Loading Weight, 100g



85 Corporate Drive, Holtsville, New York 11742
1-800-878-9070 (in u.s. only) TEL: +1 631 589 3800 FAX: +1 631 589 3815
Email: sales@koehlerinstrument.com www.koehlerinstrument.com

© 2021 Koehler Instrument Company, Inc.

Get it from your authorized distributor: www.labequip.com



ask@labequip.com