



EIE INSTRUMENTS PVT. LTD.
(An ISO 9001:2015 Certified Company)

STANDARD / DIGITAL PENETROMETER - FULLY AUTOMATIC - (ASTM D5, ASTM D217)-



Supplied with standard accessories to perform the Bitumen Penetration test. The Instrument can be used to perform penetration test on a wide variety of materials such as grease, petroleum, Wax, Polish, foodstuff, rubber asphalts and Pharmaceutical creams with the appropriate penetration tools and Cups, which are available at extra cost on demand

Complies to following International Standard:

ASTM D5, ASTM D217, ASTM D937, ASTM D1321

Salient Features:

- Fully Automatic operational Design
- Compact design and rugged construction ensures long service life and facilitates easy transport for field applications.
- Graphical display
- **Opto-electronically depth detection & measurement through imported Opto-electronic sensor**
- Automatically timed programmable penetration measurements - Preset penetration time at factory (Operator can also enter the user defined penetration interval through touch screen) In-built Facility to tare and reset the measurement results
- **Display resolution of penetration depth in tenths of units (0.1mm)**
- Magnifying lens for adjusting needle tip/cone tip exactly on the sample surface
- Low voltage Illuminator mounted on flexible arms to assist an operator during testing
- Built-in spirit level and leveling screws to ensure proper alignment
- Micrometer differential gearing mechanism for fine movement of head
- Weight of the Needle/Cone and plunger match the criteria of ASTM and IP requirements.
- **The penetration time is controlled and indicated on Digital LCD display with least count of 0.1 second.**
- The Opto-electronic sensor installed within the instrument detects the penetration depth in 10th of millimeter (0.1mm)
- The penetration value is measured and indicated on digital LCD display
- Saves last 10 average readings
- Supplied complete with Needle/cone, container and applicable weight

Supplied complete with following Accessories in case of Bitumen penetration:

- Weight of 50 Grams $\pm 0.05\text{gm}$ **1 No.**
- Weight of 100 Grams $\pm 0.05\text{gm}$ **1 No.**
- Penetration cup of 55mm diameter x 35mm height **1 No.**
- Penetrometer Needle as per ASTM D5 : 2.5 gm $\pm 0.05\text{ gm}$ - **1 No.**
- Needle Holder 47.5g $\pm 0.05\text{g}$ **1 No.**

Note:

1. **Penetration Kit as per ASTM D217, ASTM D937, ASTM D1321 can also be supplied as per the application of the user. Please specify at the time of the order**
2. **Please specify the intended penetration test at the time of placing the order. Instrument will be supplied with corresponding penetration accessories only.**

Please link on the link to watch the video of this instrument. <https://youtu.be/4K3hJQI7vPs?si=3ZebXnEvx4VJEh-v>

Technical Specification

•Measuring Range	:	0-40 mm
•Timer Range	:	0-99 Seconds
•Overall Dimensions in Inches (L x W x H)	:	13x20x31
•Operation on	:	230 Volts, 50 Hz, Single Phase, AC Supply
•Weight (Approx.)	:	28 kg

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