



## STANDARD 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

### Silent Features:

- Fully Automatic operational Design
- Compact design and rugged construction ensures long service life and facilitates easy transport for field applications.
- Touch screen 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)
- Motorized placement of penetrator on sample surface
- Penetrometer arm automatically comes back to its home position at the end of 5 seconds penetration test
- In-built Facility to tare and reset the measurement results
- **Display resolution of penetration depth in tenths of units (0.01mm)**
- 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 base of the instrument is also user adjustable - It can be lifted up or down with the jack provided at the bottom.
- **The penetration time is controlled and indicated on Digital LCD display with least**



#### Corporate Office:

A-1301, BVR Ek, Opp. Hotel Inder Residency,  
Near Gujarat College, Ellisbridge,  
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Phone : (079) 6621 1234  
Website : [www.eieinstruments.com](http://www.eieinstruments.com)

#### Calibration Laboratory:

B-14, Zaveri Industrial Estate, Opp. Shyam Villa,  
Singrava-Kathwada Road,  
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GST TIN No. : 24AABCE4018L1ZU  
I.T. PAN No. : AABCE 4018L  
IEC No. : 0813026598 Dt. 04/03/2014  
CIN No. : U29199GJ2004PTC045078  
TAN No. : AHME00572F



• The penetration time is controlled and indicated on Digital LCD display with least count of 0.01 second.

- The Opto-electronic sensor installed within the instrument detects the penetration depth in 10th of millimeter (0.01mm)
- The penetration value is measured and indicated on digital LCD display
- Supplied complete with Needle/cone, container and applicable weight

**Supplied complete with following Accessories in case of Bitumen penetration:**

- Weight of 50 Grams **1 No.**
- Penetration cup of 55mm diameter x 35mm height **1 No.**
- Transfer dish **1 No.**
- Penetrometer Needle **1 No.**
- Needle Holder 47.5g ± 0.05g **1 No.**
- Thermometer ASTM 17C (+19 to 27 °C) **1 No.**

**OR**

**Supplied complete with following Accessories in case of Grease penetration:**

- Sample container of 76.5mm dia x 63.5mm height **1 No**
- Transfer dish **1 No**
- Penetrometer Hollow 90° brass cone, Highly polished stainless steel tip **2 Nos**

**Note:**

Please specify the intended penetration test at the time of placing the order. Instrument will be supplied with corresponding penetration accessories only.

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