



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

DIRECT READING DIGITAL PENETROMETER - FOR BITUMEN



Compliance with following International Standards:

IS 1448 (part 60), IS 1203, ASTM D5, EN 1426, AASHTO T49

Silent Features:

- Compact design and rugged construction ensures long service life & facilitates transport for Laboratory field applications.
- Powder coated body parts for aesthetical outer appearance
- Sturdy cast iron base provides excellent support.
- Built-in spirit level and leveling screws ensure proper alignment during testing.
- Supplied with **digital indicator to display penetration value** and **Digital time controller**

Brief construction details:

- The apparatus consists of a cast aluminum base with an iron stand, on which moves an aluminum arm.
- **A Digital Penetration indicator is fixed on this arm and a brass chromium plated rod slide through the lower portion of the arm.**
- **A Brass Needle with plunger is fitted to this rod as per the test application.**
- Rack, pinion and pointer assembly is provided for fine adjustment of Penetration Arm / Head
- The base of the instrument is also user adjustable. It can also be lifted up / down with the jack provided at the bottom.
- The automatic digital timer and electrical arrangement, which on push of a button, allows the plunger rod to fall freely for 5 seconds and clamps it automatically after 5 seconds.
- The penetration value is measured and indicated on Digital indicator
- The penetration time is controlled and indicated on Digital Timer Panel with least count of 0.1 second.
- Digital indicator measures the penetration distance in 0.01 mm accuracy.

- Operates on 230 Volt, 50 Hz, Single Phase, AC Supply

Supplied complete with following Accessories:

1. Digital time controller with auto magnetic clutch release mechanism on push of a button. Having timing range 0-99 minutes (No need of stop watch) **1 No.**
2. **Digital Penetration indicator with 0.01 mm accuracy - 1 No.**
3. **Sample container of 55mm dia x 35mm height - 1 No.**
4. **Magnetic coil for automatic controller - 1 No.**

At Extra cost

1. Low Temp. water bath to maintain $25^{\circ}\text{C} \pm 0.1^{\circ}\text{C}$ is essential for the accuracy of the test results. Available at extra cost
2. Penetration cup 55mm X 70mm
3. Penetration cup 70mm X 45mm
4. Thermometer ASTM 17C

Technical Specification

- Overall Dimensions : 10" x 12" x 22.5" (L x W x H)
- Weight (Approx) : 8 kg

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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