

Digital Penetrometer

This penetrometer is a precision instrument for assessing material consistency and penetration resistance. It features a digital display, stable base, and adjustable settings, with a temperature-controlled bath for consistent testing conditions.



Product Overview

Precision Material Testing

This digital penetrometer is a versatile laboratory instrument designed to evaluate the consistency and hardness of various materials, including asphalt, lubricating grease, and food products. It utilizes a precision rack-and-raster system for rapid, intuitive depth measurement and features a temperature-controlled hardened glass bath to ensure stable testing conditions. With adjustable settings and high-accuracy sensors, it is an essential tool for quality control in highway engineering and food processing industries.

Technical Performance

Key Performance Metrics

1 ±

Penetration Accuracy

600 depth

Maximum Penetration

220 W

Heating Power

Selectable Timing Intervals

- 5
- 8
- 10
- 12
- 30
- 60

Timing Error

Less than ± 0.1 s

Temperature Control

$25 \pm 0.1^\circ\text{C}$ (Ambient temp should be $< 20^\circ\text{C}$)

Standard Components

Standard Test Components

Component	Weight	Standard
Standard Needle	$2.5 \pm 0.05\text{g}$	GB/T4509, T0604
Standard Cone	$102.5 \pm 0.05\text{g}$	GB/T269

Features

Design & Operation

Digital Display • Adjustable Holder • Hardened Glass Bath • Rack-and-Raster System

Application Industries

Highway Construction, Asphalt Testing, Lubricating Grease, Food Industry, Colloid Testing