



# MODEL TO-512

## UNIVERSAL PENETROMETER

### SYSTEM DESCRIPTION

Penetrometers are used for testing a wide variety of materials such as grease, petroleum, bitumen, tar, asphalt, rubber, cement, and soils.

In this test, a chosen force is applied over a given area for a known period of time and the depth of penetration or the depression made in the sample is measured in tenths of a millimeter which is expressed as a penetration number. An accurately fabricated steel base has been designed to facilitate penetration tests to be made over a wide surface area of sample. Adjustable feet are provided in the base for leveling. The display and penetration arm are adjustable to permit the testing of samples immersed in a thermostat bath.

The unit is compact with in-built timer to control duration of penetration preset in factory to 5 seconds. The instrument is provided leveling screws. Each penetrometer is supplied with a plunger weighing 47.5 g for testing bituminous product, one 50g weight, and one 100g weight. It also includes the cone and Penetration Unit.

### APPLICABLE STANDARDS

ASTM D 5, ASTM D 1321, ASTM D 2884, ASTM D 1403, BS 1377, BS 2000- (Part 49), BS 4691, BS 4698, ASTM D 937, ASTM D 217, EN 1426, 13179-2, AASHTO T49, IP49



### SUPPLIED AS STANDARD WITH:

TO-515	Penetrometer Cone.
TO-516	Bitumen Penetration Kit.



### OPTIONAL ACCESSORIES

TO-515	Penetration Cone
TO-518	Bitumen Penetration Kit
TO-51801	Penetration Needle
TO-04201	Penetration Test Cone
TO-04202	Penetration Test Cup



### ORDERING INFORMATION:

<b>TO-512-01</b>	Universal Penetrometer with Timer, 110V, 60Hz, 1ph
<b>TO-512-01</b>	Universal Penetrometer with Timer, 220V, 60Hz, 1ph
<b>TO-512-01</b>	Universal Penetrometer with Timer, 220V, 50Hz, 1ph

