

# Penetrometer LMPT-A12



## Penetrometer LMPT-A12

Penetrometer LMPT-A12 is a two grade low temperature controlled unit for determining penetration of pavement petroleum asphalt, modified asphalt, liquid petroleum asphalt and emulsified asphalt with time control. It has digital display which shows penetration number of sample. Separate automatic low temperature circulatory water bath for maintaining constant temperature on the unit. It is ideally used for different types of asphalt, food industries, highway engineering, etc.

### Features

- Digital display shows penetration number of the sample
- Two grade of timing control
- Adjustable needle holder
- Designed for low temperature measurement
- Circulatory water bath maintains constant temperature
- Low temperature can be preset for different specimens

### Application

Widely used for determining needle penetration of pavement petroleum asphalt, modified asphalt, liquid petroleum asphalt and emulsified asphalt, also for solid particle, powder, colloid mixture, highway engineering and food materials such as glycine, cheese, butter, cream, leavening agents, etc.

## Specifications

| Model No                             | LMPT-A12                         |
|--------------------------------------|----------------------------------|
| <b>Penetrometer</b>                  |                                  |
| Measurement range                    | 0 to 600 penetration scale       |
| Timing controller                    | 5 sec or 60 sec                  |
| Time accuracy                        | $\pm 0.1$ seconds                |
| Resolution                           | 0.1 penetration                  |
| Penetration accuracy                 | $\pm 1$ penetration              |
| Weight of standard needle            | $2.5 \pm 0.05$ g                 |
| Dimensions (W $\times$ L $\times$ H) | 700 $\times$ 400 $\times$ 750 mm |
| Weight                               | 30 kg                            |
| <b>Circulatory Water Bath</b>        |                                  |
| Bath volume                          | 3.5 L                            |
| Temperature range                    | 5 °C to 60 °C                    |
| Temperature accuracy                 | $\pm 0.1$ °C                     |
| Circulatory water quantity           | 3 L/minute                       |
| Pump Lift                            | 2 m                              |
| Power consumption                    | 1200 W                           |
| Power supply                         | AC 220V $\pm$ 10 %, 50 Hz        |
| Dimensions (W $\times$ L $\times$ H) | 600 $\times$ 400 $\times$ 650 mm |
| Weight                               | 40 kg                            |