

# EV2 STATIC PLATE LOAD TESTER

Ev2 static plate load tester is used to determine the settlement of subgrades under static load, thereby assessing the bearing capacity and deformation characteristics of the subgrade. It is suitable for quality monitoring and testing of foundations in railways, highways, airports, urban transportation systems, ports, terminals, as well as industrial and civil construction projects subjected to static loads. Through a circular loading plate and loading device, the ground is subjected to an initial loading and unloading cycle, followed by a second loading. The stress  $\sigma$  beneath the loading plate and the corresponding center settlement value  $S$  of the loading plate are measured to calculate the deformation modulus  $E_{v2}$  and the  $E_{v2}/E_{v1}$  ratio.

## FEATURES

- ⊙ Equipped with imported sensors and selected components to ensure high measurement accuracy.
- ⊙ The display is backlit, ensuring good visibility in various lighting conditions.
- ⊙ Automatically calculates  $E_{v1}$ ,  $E_{v2}$ , and the  $E_{v2}/E_{v1}$  ratio, with graphical curve display.
- ⊙ Includes a handheld terminal and a compact Bluetooth printer for on-site printing, ensuring accurate and objective test results.
- ⊙ USB interface enables bidirectional data transfer for seamless computer connectivity.



**SINCE 2006**

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## TECHNICAL SPECIFICATIONS

Loading plate	
Diameter	300 mm
Thickness	25 mm
Features	Equipped with a handle and a box level
Loading device	
Hydraulic pump	100 kN
High-Pressure hose	2 m
Extension rods	1 × 40 mm, 1 × 90 mm, 1 × 120 mm, 1 × 160 mm, 2 × 60 mm
Upper pressure plate	Magnetic ball joint
Settlement measurement	
Support frame	Tripod with telescopic and rotatable lever arm, adjustable base
Dimensions	2320 × 570 × 420 mm (L × W × H)
Weight	12.5 kg
Pressure measurement	
Sensor range	100 kN
Components	Includes pressure sensor and connecting fittings
Displacement measurement	
Range	25 mm
Accuracy	0.01 mm
Data Storage	
Capacity	200 test data sets
Print output	Wireless bluetooth printer