

INSPECTOR-4

Light Falling Weight Deflectometer

INSPECTOR-4 is a portable falling weight deflectometer (LWD) for measuring the ground elastic modulus, maximum deformation, compaction factor, elastic deflection and deformation time. It is ideal for testing in regular or difficult to access areas.



The deflectometer can be used in design, construction, maintenance and quality control of buildings, subdivisions, roads, railways and other environments to measure elastic modulus of unbound or partially bound material, including asphalt, granular aggregation base, base layers, soil, concrete etc.

INSPECTOR-4 is portable, compact and can easily be used by a single operator. The device's intelligent built-in electronic unit calculates and displays the results immediately after the series of measurements is completed. All measured data is stored and can be downloaded to a computer via USB or Bluetooth connection. The results can also be read to the user's mobile phone and forwarded via e-mail to off-site staff for real-time verification against expected results.

A separate GPS unit is available to determine and store the exact location of the measurement, which can later be graphically displayed in Google Maps.

INSPECTOR-4 is rated IP65 under the international IEC 60529 standard and is splash and dust proof.

INSPECTOR-4 Features and Benefits

- Compact and easy to set up and use
- Real-time calculation and display of measurement results
- Results stored in device memory
- Computer connection with USB or Bluetooth
- Data can be sent to user's mobile phone
- Display for alarms and monitoring
- Separate GPS unit to determine and store measurement locations
- Electronic unit can be detached for separate shipment if needed

Parameter	Units	Value
Falling weight	kg	10
Loading force	kN	23
Falling weight drop height	mm	800
Loading plate diameters	mm	140 and 200
E-modulus range	MPa	5 - 900
Supply	V	3 (2x 1.5V alkaline batteries)
Number of measurements per battery set		>1000
Operating temperature	°C	-10 to +40
Protection level		IP65
Weight (excluding carrying case)	kg	16
Dimensions	mm	1150 x 110 x 110