



Clegg Impact Soil Tester Type CIST/882

Simple Tool for checking Trench Re-instatement & Soil Strength

The Classic Clegg Impact Soil Tester type CIST/882 manufactured by SD Instrumentation (SDi) provides a means for measuring and controlling soil strength and consolidation levels during trench reinstatement. It is also used to confirm uniform compaction over wide areas of ground, identifying poorly compacted areas and ineffective rolling of materials. A special lightweight version of the Tester is also available for checking sports turfs whilst a heavy-duty version is supplied for testing harder materials and roadworks.

The Tester consists of a 4.5 kg compaction hammer operating within a vertical guide tube. When the hammer is released from a fixed height, it falls through the tube and strikes the surface under test, decelerating at a rate determined by the stiffness of the material within the region of impact. A precision accelerometer mounted on the hammer generates an electrical charge which is fed by a cable to a hand-held digital readout unit. The readout unit scans and filters the signal and registers the deceleration in units of Impact Value (IV). The Impact Value is an indication of soil strength and shows good correlation with results from CBR tests. Data from the Impact Soil Tester can therefore be used in a similar manner to results from CBR tests performed in the laboratory and in the field.

CIST/882 HAND-HELD READOUT UNIT

The CIST/882 Readout Unit is held in the hand during testing. It displays readings of Impact Value (IV) and shows the number of times that the hammer has been dropped during each test operation. Unlike previous models the user does not need to keep the 'On' button pressed during testing. To carry out a test, the ground surface is brushed lightly with the foot to remove loose material and the guide tube is placed in position. With the digital readout switched on and held in one hand, the hammer is raised to a height of 450 mm as indicated on the hammer head and then allowed to fall freely. This procedure is repeated four times, the fourth reading is taken as the Impact Value. Tables of target IV for a range of backfill and subgrade materials are given in the operating manual, enabling the operator to check the compliance

of reinstatements with the specification levels. The %CBR display and TREND inter-reading check is simply enabled / disabled by the 'On' button.

CIST/882 Specification: Order Code: - CIST/882/4K5

Model Number: CIST/882/4K5

Hammer Weight: 4.5 Kg.

Bumble Bee Guide Tube: Strong Anodised Yellow Aluminium, Black Acetal Base Flange & Handle.

Readout Display (alphanumeric): Backlit – easy to view. Handheld readout unit.

Readout Range: Up to 101 Impact Values (IV).

Power Source: 3V: 2 x AA batteries located behind detachable rear sealed panel.

Battery Life: 12 Month typical battery life - dependent upon frequency of usage.

Power 'On' & Controls: Single momentary push button - also enables / disables %CBR Display.

Data Storage in Readout: N/A. (but available with the CIST/884 and optionally with CIST/883 models).

Readout Displaying %CBR: Enabled / disabled by pressing & holding the 'On' button. When enabled displays 4th drop %CBR value (with Inter-drop IV check TREND algorithm).

Transit & Storage Case: Type CIST/ATS/15. Aluminium framed case for added protection in transit. Size & Weight (packed): Approx: 83 x 31 x 29 cm. Weight in case approx. 15 Kg.

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