

BTN-21 AUTOMATIC ROAD UN EVENNESS RECORDER



TECHNICAL DESCRIPTION :

Automatic Road Unevenness Recorder comprises of a trailer of single wheel with a pneumatic type mounted on chaise over which are installed profile recording and integrating devices. The machine has panel board fitted with two nos. of electronic counters for counting the unevenness index value. The digital meter for unevenness index value 50 mtrs. To 1000 mtrs. For automatic displaying of UI values Data Storage in memory to display on panel board.

The operating SPEED OF THE MACHINE IS $30 + 1\frac{1}{2}$ KM/Hr, and is towed by a vehicle. Its wheel on the pavement surface and the vertical reciprocating motion of the axle is converted into unidirectional rotatory motion by the integrator unit, the accumulation of this unidirectional motion is recorded by operating sensor inserted in the circuit of electronic counter once for every one centimeter of accumulated unevenness. Wheel revolutions are also indicated on the other electronic counter through a sensor actuated by the cam fitted on the hub of the wheel after every one meter of the wheel movement. There is an arrangement introduced for digital display of unevenness index value with a setting of distance form 50 mtrs, to 999 mtrs.

DIMENSIONS AND WEIGHT :

Size :2.0 m.(L)x 2.0 m(W) X 1.5m (H)

Weight :Approx. 250 Kg

SERVICE REQUIRED :

SCOPE OF DELIVERY:

1. Experimental Setup
2. Instructional Manual