

Mfg. & Deals in: Material Testing Equipment & Civil Surveying Equipment

(Soil, Aggregate, Cement, Concrete, NDT, Rock, Bitumen & Asphalt, Safety Equipment & Glassware Equipments.
(we also dealing with all types of chemicals).

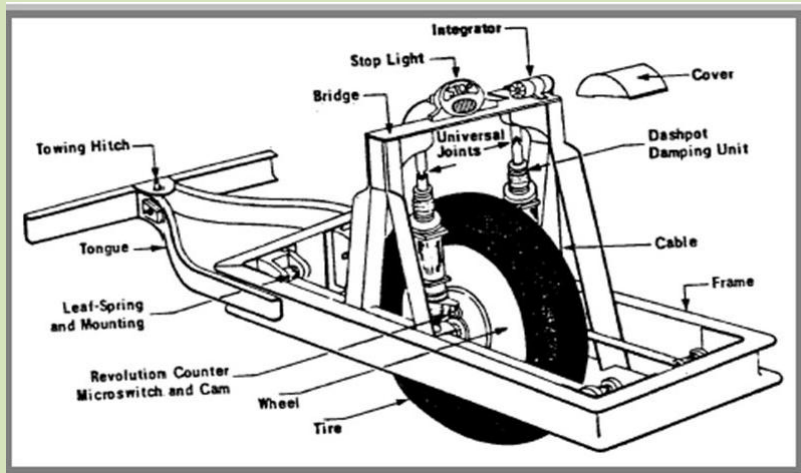
Since 2013

BUMP INTEGRATOR



BUMP INTEGRATOR

The automatic road unevenness recorder/bump integrator having a best quality for measuring roughness of road surface having a single balancing wheel which gives the actual result of surface irregularities with the help of standard method and can be studied for the judgments road surface stage for repairing or upgrading. Advantages of our bump integrator Instant measuring process Low cost for maintenance Easy to ride to users with LCD counter/Adjustments according to users Easy transportation An Indigenous device developed by CRRI. It comprises of a standard pneumatic wheel mounted within a rectangular frame with single leaf spring on either side. Spring dashpots mounted on the leaf spring provide damping for the suspension. Integrating unit, mounted on one side of the frame integrates the unevenness in cm.



- ✓ For the measurement It is towed by a jeep at a constant speed of 32 kmph under standard tyre pressure of 2.1 kg/cm² along the designated wheel path.
- ✓ Bumps in cm and corresponding road length in terms of wheel revolution pulses are displayed / recorded on a panel board.
- ✓ An Indigenous device developed by CRRI.
- ✓ It comprises of a standard pneumatic wheel mounted within a rectangular frame with single leaf spring on either side.
- ✓ Spring dashpots mounted on the leaf spring provide damping for the suspension.
- ✓ Integrating unit, mounted on one side of the frame integrates the unevenness in cm.

- Class III roughness measurement device analogue bump integrator.
- Able to give quantitative integrator evolution of surface irregularities on a digital counter LCD screen.
- it is a single wheeled trailer with a pneumatic tyre mounted on a chassis on which integrator device is fitted.
- Accelerated accredited by IRC/CRRI.
- Time-stamp.
- Must be suitable for survey speed between 25-80 km/h Ruler Road.
- It has its own software for data processing and having the facility of entry integration.
- USB connection for data transfer
- Report in different format including detail tables.

FACILITY

VS-11

Bump Integrator, conventional type

Overall Length : 2400 mm

Overall Width : 700 mm

Height : 1100 mm

Net Weight : 350 Kg (Approx.)

Tyre Size : 6.00 x 16.4 Ply

Inflation Pressure: 2.1 Kg/Cm (30 lbs./sq. inch)

Standard operation Speed : 32 + 0.5 Km/Hour

Bump Integrator with preset facility

Same as model -II but with an additional facility to set length level from 50 meters to 9999 meters.

Micro Processor based Bump Integrator

Accumulates vertical undulations after every one centimeter on LCD counter.

Allows automatic changing & re-setting of the counter, after completion of every section.

Displays data of the set distances on the panel board Operates on 12 V & 220 volts.

Stores 2000 segment data - memory is provided with a battery backup.

The Data Output comprises of

1. Date & Time
2. Section no.
3. Bumps in cm
4. Preset Length in meter
5. Speed of vehicle
6. Pass button

Print Out Format:-

W..C	Bump	Speed	Road type	Section no	Date	Time
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Bump Integrator with Unevenness Index

Same as Model IV but with an additional facility to define the category of Road as per the defined bins of good, fair, poor & very poor and corrected Unevenness Index Value (centimeter/ kilometer formula)

DD/MM/YY : HH/MM/SS: Section No./Project No.

Preset Length : Bumps in CM Length in Meters

Corrected UI : Speed of UI Road Category

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3. Bumps in cm
4. Preset Length in meter
5. Speed of vehicle
6. Pass button

DD/MM/YY : HH/MM/SS Section No./Project No.

Preset Length : Bumps in CM Length in Meters

Corrected UI : Speed of UI Road Category