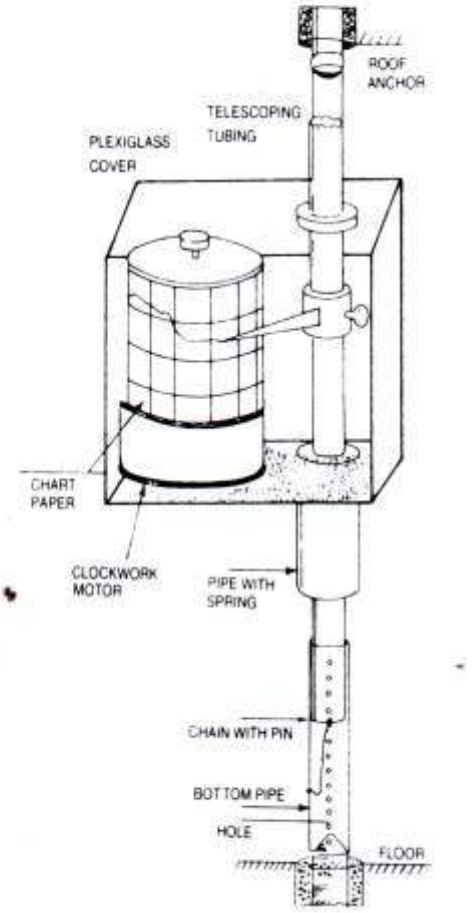
DIRECT-RECORDING COVERGENCE METER

"NMC" Convergence Meter has been developed primarily as a low cost means of continuously recording roof / floor convergence in mines, where ready access to the measurement site is possible. Direct plots of convergence versus time are obtained over a range of upto 100 mm.

The Convergence Meter consists basically of a clock-work driver, a chart paper drum and a spring loaded scriber arm mounted on telescopic tubes. In use the tubes are coupled between two pins located on roof and floor. As the roof & floor converge the tubes telescope into each other causing the scriber arm to trace a varying path over the chart paper mounted on the slowly rotating drum. On removal the chart is a permanent direct record of convergence plotted against time.

The mecahnisms are totally enclosed in a sealed housing to exclude dust and moisture. The meter is robust and easy to set up.



ORDERING INSTRUCTION

Specify : 1) Maximum seam height.
2) Borehole Diameter for Mountings Anchors.
3) Chart Speed-Daily / Weekly.

SPECIFICATION

2 Telescopic Tubes complete with Roof and Floor anchors.

Chart Speed — 1 Rev. per day / week.

Convergence Range — 75mm/100mm

- ★ Clock-work drive.
- ★ Rugged construction.
- ★ Direct record of convergence versus time.
- ★ Automatic continuous — recording

OPERATION MANUAL

1. Identify the place where Convergence Recorder is to be installed.
2. Make two Drill holes in Roof and Floor in the same vertical plane.
3. Grout Anchor Bolts in Roof & Floor
4. Assemble pipes .
5. Adjust Telescopic tubes to proper height and fit in between Roof and Floor Bolts.
6. Wind the clock-work.
7. Mount the paper on the drum by putting some adhesive.
8. Adjust the tension of scriber arm, if necessary.
9. Remove the Chart after 24 hours./ one week.
10. Paper will be a permanent record of covergence with respect to time.

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