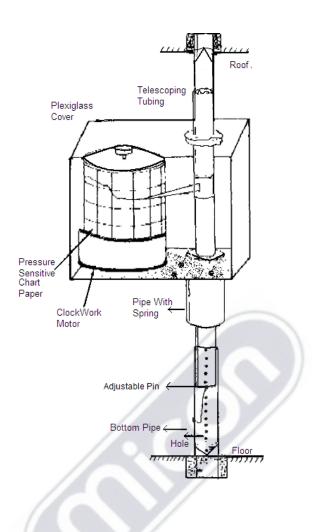


DIRECT-RECORDING CONVERGENCE METER



'MICON' Convergence Meter has been developed for continuously recording convergence in mines. Direct plots of convergence versus time are obtained over a range of upto 75 mm/100mm/150mm/250mm

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 mechanisms are totally enclosed in a transparent housing to exclude dust and moisture. All the parts are made out of Non Corrosive materials

SECIFICATIONS:

- Chart Speed 1 Rev. / 1 day & 7 day (or an option of Dual Speed drive, simple switch for alternating between 1 and 7 days)
- Convergence Range 75mm/100mm/150mm/250mm
- Mechanical Clock- Spring Work Drive.
 - o Manufactured according to DIN 58658
 - Shock-resistant and antimagnetic Swiss anchor escapement
 - \circ $\;$ Stainless steel winding spring , pinions and shaft $\;$
 - Accuracy : +/- 5 sec/24 hour , according to DIN 8300
- Stainless Steel Telescopic Tubes.
- Rugged construction.
- > Direct record of convergence versus time.
- Automatic continuous recording

Ordering Instructions:

Specify: 1) Maximum seam height

- 2) Convergence Range
- 3) Chart Speed Daily /Weekly
- 4) Dual Speed (Option of Daily and Weekly Rotation in a single Clock)

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. Assemble Pipes as per numbers pasted on them.
- 4. Adjust Telescopic tubes to proper height to fit in between Roof and Floor. The Tubes should be adjusted with Pin to such a position, where the recording pen is between 30mm to 70mm on the chart paper.
- 5. Wind the clock-work.
- 6. Mount the paper on the drum, lock the same with the help of the Brass clamp provided. Remover the cap on the tip of the pen
- 7. Remove the Chart after 24 hours/168 hours
- 8. Paper will be a permanent record of convergence with respect to time.





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