



'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.
 - Manufactured according to DIN 58658
 - Shock-resistant and antimagnetic Swiss anchor escapement
 - 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.



Micon Engineers

25 NETAJI SUBHAS ROAD, KOLKATA 700001
PHONE : 033-2230-9138/8378, FAX : 033-2230-8378
Email : info@miconeng.com, website: www.miconeng.com