



SIVA INSTRUMENTS

Digital Conductivity Meter

Model : MK-III



Portable Conductivity Meter has been developed to facilitate easy determination of conductivity of non-ferrous metals based on eddy current principle. Instrument uses a probe which when placed on the surface of metal indicates conductivity on a linear scale panel meter. The instrument can be used to measure stressed conditions if they can be related to the electrical conductivity of the specimen. Whilst the accuracy claimed is 2% however, for high conductivity samples an accuracy of better than 1% is easily obtained. The users can also, if desired, use their own sample of known conductivity in the region of interest to enhance the accuracy.

The instrument is supplied in a rugged carrying case which gives complete protection and has separate pocket for probe. The equipment can be used without removing it from the carrying case.

SPECIAL FEATURES:

- Direct reading
- High Accuracy
- Very Compact
- Built in Power Supply of 9V Dry Battery.

Fast Response

Measurement time less than 5 seconds per sample.
Probes of different diameters (8mm, 10mm and 12mm)

SPECIFICATIONS:

Weight of the instrument	: 1.5kg
Diameter of Test probe	: 8mm, 10mm, and 12mm. (One of the probes will be available with the instrument)
Thickness of Sample	: 2mm for 20% and 0.8mm for 100% conductivity
Range of Conductivity	: 20% to 105%
Accuracy	: Indicated Value:1.5%
Power	: 9V Dry Battery
Dimensions	: 225 x 170 x 60mm
Display	: 3 ½ digit (Analogue model also available)

Applications:

Some of the typical applications are listed below:

1. Measurement of absolute conductivity of electrical hardware and electrical conductor made of copper, aluminum and their alloys.
2. Segregation of mixed lot of non-ferrous metals.
3. Determination of uniformity of heat treatment.
4. Determination of homogeneity of metal.
5. It can be used to ingots, forgings, sheets, castings, bars of finished parts, of any conductive
6. material such as aluminum, copper, brass, gold, silver and magnesium. It can also be used to detect the subsurface cracks on the metal.

Operating Instructions:

1. Hold the probe in knurled portion firmly.
2. Press it gently on the metal under test, keeping it vertical to the plain of metal surface. Align the obtained in this condition will show lowest conductivity and will also be most accurate.
3. It is recommended that prior to taking measurements, the equipment should be calibrated at 99% and 30% conductivity with help of two controls and the two standard samples provided on in the instrument.
4. Instrument works on 9V dry battery pack. Periodically battery may be checked with a push button provided on the front panel. If low battery indication observe from the instrument, it needs to be replaced.

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