

OPERATION
PROCEDURES

FOR

THE MODEL 103

INITIAL INSPECTION

Carefully unpack the instrument and accessories. Inspect for damage in shipment. If any damage is found, notify your Jenco Representative immediately. All packing material should be saved until satisfactory operation is confirmed.

WARRANTY

Jecno Electronics, Ltd. warrants the instrument for a period of one year, from date of purchase, against all defects in material and workmanship. This warranty does not apply to the abuse or misuse of the instruments. If repairs or adjustments are required, please return the defective instruments freight prepaid. Instruments within warranty will be repaired at no charge. Make sure that the instrument is properly packaged and insured against possible damage or loss in shipment.

Authorization must be obtained from Jenco Electronics, Ltd., before returning items for any reason.

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OPERATION PROCEDURES FOR THE MODEL 103

The model 103 is a conductivity measurement instrument over the a wide measurement range of 0 to 20 mS/cm (0 to 20,000us/cm).The instrument is calibrated to a temperature coefficient of 2% per °c over the measurement temperature range of 0 to 50°C.

Connect the AC adaptor to the AC power line and to the instrument . Check to make sure that the voltage on the AC adaptor label is the same as the line voltage. It is recommended to conserve the internal batteries by using AC power whenever it is available.

Connect the conductivity probe to the instrument. Press the momentary ON/OFF switch on the side of the meter for readings .

CALIBRATION USING STANDARD SOLUTIONS

1. Rinse the conductivity probe with distilled water or the Standard Solution.
2. Immerse the conductivity probe in the Standard Solution. Choose the Standard Solution closest to the value of the sample solution. Refer to TABLE 1.
3. Set the Cell Adjust control for the meter to display the value of the standard solution.
4. The instrument is calibrated and ready for measurements.

Standard Solution	Measurement Range	Meter Display Value
A	0-2.00	1.41
B	2.00-20.00	12.86

TABLE 1

PREPERATION OF STANDARD SOLUTIONS

Solution A-Weigh out (in air) 0.7440 g research grade KCL and dilute with water to 1000 ml.

Solution B-Weigh out (in air) 7.4365 g research grade KCL and dilute with water to 1000 ml.

CONDUCTIVITY MEASUREMENT

1. The instrument must be calibrated with Standard Solution before use.
2. Rinse the conductivity probe with distilled water or with the sample solution.
3. Immerse the conductivity probe into the sample to be measured. The instrument will indicate the conductivity value of the sample refered to 25 °C.