

NEW

The third generation conductivity ...



A Hi-Tech Conductivity Meter

THE CONTROL DYNAMICS CONDUCTIVITY METER

CONTROL DYNAMICS now presents a conductivity meter that has all the features which were built into the pH meter - high stability, reproducibility and a continuous duty cycle.

The model APX 185 LABORATORY conductivity meter incorporates a J FET controlled oscillator and EPROM switching, with automatic ability to choose 100Hz or 1000Hz operation. It has a relative accuracy of ± 1 least digit of selected range, repeatability of ± 1 least digit and stability (drift/24hrs) after warm up of 30 minutes of less than 1 least digit.

The salient features include

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| <p>A WIDE MEASUREMENT RANGE
* From 200nS/cm to 200mS/cm.
(1S = 1 mho)</p> <p>B HIGH SENSITIVITY
* 100pS/cm using 0.01 cell constant.</p> <p>C DIRECT DISPLAY OF CONDUCTANCE
* The display is in conductance mS/cm and μS/cm (conductivity X cell constant) eliminating cell constant determination and user multiplication.</p> <p>D AUTOMATIC TEMPERATURE COMPENSATION
* With an optional NTC probe, the conductivity variations of the sample with temperature is compensated.</p> | <p>E RATIO-METRIC MEASUREMENT
* Using two conductivity cells the instruments can be used as a conductivity comparator for quality control "GO-NOGO" tests.</p> <p>F AUTOMATIC SELECTION OF OPTIMUM FREQUENCY
* The instrument automatically chooses the internal frequency of 100Hz or 1000Hz to suit the measurement range for very high accuracy readings.</p> <p>G DIGITAL READOUT
* BRIGHT $3\frac{1}{2}$ digit 7 segment LED display for ease of observation for readings from 0.0001 μS/cm to 19.99 mS/cm</p> |
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The Control Dynamics Conductivity meter is a light-weight instrument with aluminium sheet metal housing and is epoxy painted.

THE MOST UNIQUE FEATURE : Measurements in conductivity are done for determining the conductance of samples (i.e. conductivity displayed on usual meters multiplied by cell constant of cell). The user has to determine the cell constant accurately from time to time and use this to multiply the displayed reading and obtain CONDUCTANCE in S/cm. THE CONTROL DYNAMICS CONDUCTIVITY METER accurately determines the cell constant during calibration and multiplies and displays CONDUCTANCE DIRECTLY ensuring the highest accuracy possible.

Another unique feature is the two dimensional electrode stand with a flexible spring balanced arm.

Along with the Conductivity Meter we provide a 1.0 cell K sensor, electrode stand, electrode holder, wash bottle, calibrating standards, a dust protective cover and a Handy Plastic Instruction manual.

CONTROL DYNAMICS DIGITAL CONDUCTIVITY METER MODEL APX 185E

SPECIFICATION	MODEL APX 185E
DISPLAY RANGE	: $3\frac{1}{2}$ DIGIT LED 7 SEGMENT 0.5" HEIGHT 0-20 μ S; 0-200 μ S; 0-2mS; 0-20mS. and RATIO-METRIC 0.000 to 1.000
RELATIVE ACCURACY	: ± 1 LAST DIGIT OF RANGE DISPLAYED
MINIMUM/MAXIMUM READING	: 0.0001 μ S/cm with 0.01 Cell K 199.9mS/cm with 10.0 Cell K
REPEATABILITY	: ± 1 LAST DIGIT OF RANGE DISPLAYED
LINEARITY	: BETTER THAN 1% OF RANGE DISPLAYED
STABILITY (drift/24 hrs)	: <1 DIGIT after warm up period of 30 minutes non-cumulative
TEMPERATURE COMPENSATION	: MANUAL 0°C to 100°C on FRONT PANEL AUTOMATIC WITH NTC Temperature Compensator probe OR with REFERENCE CELL
RECORDER OUTPUT	: Analog 0-100mV Full Scale
MAINS SUPPLY	: 230V 50Hz A.C. $\pm 10\%$
ENVIRONMENTAL CONDITIONS	: TEMPERATURE -20°C to 55°C OPERATING ; HUMIDITY 90% RH AT 40°C