

Specification Requirement for combined pH-Conductivity meter

The Instrument	A combined pH-Conductivity meter for teaching laboratory is required
Display	Should have a suitable back-lit LCD display
Keyboard	Alphanumeric waterproof keyboard should be available
Connectivity	Parallel port for printer and suitable port for PC connectivity
Security	Password protection for calibration data and stored readings
Software	User interactive software in dialogue mode
Clock	Built-in real time clock for time display and to print time in the report
Warranty	A minimum of two years of replacement warranty must be provided on the electronics of the instrument
UPS	A 650VA APC make UPS should be included in the quote with each instrument

Minimum specifications required for the pH meter

pH Range	-2.0 to 19
Resolution	All of 0.1, 0.01 and 0.001 should be available
Relative accuracy	±0.002
Calibration	Three point calibration system should be available, facility to view and print the calibration data
Electrode	Two pH electrodes should be provided with each instrument
mV Range	0 to ±1999.9 mV
Resolution	±0.1 mV or better
Relative accuracy	±0.2 mV or better
Temperature range	10 °C to 45 °C
Temperature sensor	Temperature sensor must be provided

Minimum specifications required for the conductivity meter

Conductivity range	0.01µS/cm to 199mS/cm
Conductivity cells	Two cells must be provided with each instrument having cell constants 0.1 and 1.0
Resolution	0.01
Accuracy	0.5%
Calibration	Suitable calibration protocol should be available
Temperature compensation	Suitable temperature compensation module should be available for conductivity measurements