The Versatile Multi-Parameter Bench Meter

Save time, space and money with the Starter 3100M Bench Meter, which combines all your pH, ORP, conductivity, TDS, salinity, resistivity, and temperature measurements—in one smart device. Ideal for a wide range of lab applications, the ST3100M is incredibly easy to use. Equipped with software to ensure the reliability of your readings, and RS232 connectivity to store and transfer data conveniently, the ST3100M is a great addition to your lab.

Standard Features Include:

- Equipped with Software to Ensure the Reliability and Accuracy of Your Readings
  Auto temperature compensation, auto buffer recognition, six pH buffer groups, five conductivity standards and automatic/manual endpoints ensure accurate and stable measurement.

- User-Friendly Features Offer Ease of Operation and Versatility
  An adjustable electrode holder, a large backlit LCD for optimal viewing of results, and a Quick Guide with set-up and navigation info combine to make ST3100M a truly user-friendly experience.

- Store and Transfer Data Conveniently with RS232 Connectivity
  Documenting data is made efficient with a 99-item memory for pH and conductivity measurements. RS232 interface allows you to connect to an external device such as a printer to store or transfer data.
## Starter 3100M Multi-Parameter Bench Meter

### Model ST3100M

**pH**
- **Measurement Range**: -2.00 to 20.00 pH
- **Resolution**: -2000 to +2000 mV
- **Accuracy**: ± 0.01 pH
- **Calibration**: 3 point, 6 buffer groups for pH
- **Input**: BNC, impedance >10^12 Ω
- **Temperature Compensation**: Automatic or manual/0 °C to 100 °C for pH

**Conductivity**
- **Measurement Range**: 0.01µS/cm to 199.9 mS/cm
- **Resolution**: 0.01µS/cm auto-range
- **Accuracy**: ± 0.5% full-scale reading
- **Calibration**: 5 pre-defined conductivity standard points
- **Input**: Mini-DIN
- **Temperature Compensation**: Automatic or manual/0 °C to 100 °C for pH

**Temperature**
- **Measurement Range**: -5 °C to 110 °C
- **Resolution**: 0.1 °C
- **Accuracy**: ± 0.3 °C
- **Input**: Cinch, NTC 30 kΩ

**TDS**
- **Measurement Range**: 0.1mg/L to 199.9 g/L (rDS)
- **Resolution**: 0.01 mg/L auto-range

**Salinity**
- **Measurement Range**: 0 to 100 psu
- **Resolution**: 0.01 psu

**Resistivity**
- **Measurement Range**: 0-20MΩ•cm (resistivity)
- **Resolution**: 0.01 Ω•cm auto-range

**Memory**: 99 sets of pH and conductivity data, last calibration data

**Power/Battery**: 110-240V / 50Hz, 12 VDC

**Size/Weight**: 220 × 175 × 78 mm (approx.)/0.95 kg

**Communication**: RS232 (included), USB (not included)

### Other Standard Features & Equipment
- ABS housing, in-use cover, mechanical keys, three point calibration (pH), electrode condition icon, toggle button, compact design

### Compliance
- **Product Safety**: UL 60950-1 (AC adapter); CSA C22.2 60950-1 (AC adapter)
- **Electromagnetic Compatibility**: FCC Part 15 Class B; ICES-003 Class B

### Accessories
- Stand-alone Electrode Holder
- In-Use Cover
- SF40A Printer
- RS232 Interface, Scout (Mini-DIN to RS232 cable)
- USB Interface Kit

### Dimensions

### Packages
- Available in three configurations

#### ST3100M-B
- ST3100M bench meter, stand-alone electrode holder, in-use-cover

#### ST3100M-F
- ST3100M-B content; ST310, STCON3, pH powder sachet set, 1413 uS/cm and 12.88 mS/cm solution (20ml bottle)

#### ST3100M-N
- ST3100M-B content; ST230, STTEMP30, STCON3, pH powder sachet set, 1413 uS/cm and 12.88 mS/cm solution (20ml bottle)