

# TDS METER

## Economy desktop version

MODEL : TDS 100



## INTRODUCTION

A large number of salt such as carbonates, bicarbonates, chloride, sulphate, phosphates & nitrates of calcium, magnesium, sodium, potassium, iron and manganese etc., are found dissolved in natural water. Similarly coastal marine water contains substantial quantity of these salts.

A high content of dissolved solids elevates the density of water, influences Osmoregulation of fresh water organism and reduces solubility of gases thereby reducing the utility of water for drinking, irrigation and industrial purposes. Therefore, determination of Total Dissolved solids is one of the important parameters in water analysis.

SANSEL make digital TDS meter TDS 100 is extremely useful for fast and accurate determination of Total Dissolved Solids in a liquid. The use of solid state technology and IC circuitry makes this instrument versatile and reliable. The multi position selector switch quickly sets the digital display to the desired test range. The instrument is ideal for testing of natural water, drinking water, waste water, brine solution, sea water and soluble salts, etc.,.

## FEATURES

- ✓ Highly reliable and accurate meter.
- ✓ Very responsive Platinum Conductivity cell.
- ✓ Latest ICs used for quick sensing and high accuracy.
- ✓ Input is compatible for any type of electrode(1.0 cell constant).
- ✓ Cell adjustment controls are provided on front of instrument.
- ✓ Check adjustment controls are provided on rear of instrument.

## Technical Specifications

| Model                    | TDS 100                                                                                       |
|--------------------------|-----------------------------------------------------------------------------------------------|
| Display                  | 0.5" 3 ½ Digit 7 segment Red LED                                                              |
| Range                    | 0 – 20 ppm/ 200 ppm/ 2000 ppm/ 20ppt / 200ppt ( 5 range selection using front rotary switch ) |
| Resolution               | 0.01 / 0.1 / 1 for ppm range & 0.01 / 0.1 for ppt range                                       |
| Accuracy                 | ± 1 % of Range ± 1 digit                                                                      |
| Temperature Compensation | 0 to 50°C (Manual) continuously adjustable                                                    |
| Cell Constant            | Adjustable with indication on display                                                         |
| Sensor                   | Platinum Conductivity cell (1.0 cell constant) with Banana male connector                     |
| Input Connection         | Banana socket                                                                                 |
| Operating Environment    | 0 to 50°C / 20 to 95 % RH non condensing                                                      |
| Power supply             | 230V AC / 50 Hz ± 10%                                                                         |
| Overall Dimension in mm  | 185 x 235 x 65 ( L x B x H )                                                                  |
| Instrument Weight        | 1.6 kg (Approx.)                                                                              |

Note: Due to continuous product improvements, Published specifications may change with out notice

### Standard Delivery

1. Basic Instrument
2. Platinum Conductivity Cell
3. Electrode Clamp & stand set
4. Instruction manual

### Optional

1. Imported certified Standard Solution



## SANSEL INSTRUMENTS AND CONTROLS SANSEL CALIBRATION LABORATORIES

ISO/IEC 17025 Accredited Calibration Laboratory by NABL CC - 2879  
( Thermal, Mechanical, Electro-Technical, Dimension Parameters )

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