

# SOLINST TECHNICAL BULLETIN

## Manual or Automatic Conductivity, Level & Temperature

### Introduction

Conductivity is a parameter that is very useful as a general indication of contamination and salinity levels in water, thus it may be used as a pre-screening tool to help avoid costly laboratory analyses. Conductivity can also be used for measuring and monitoring the impact of pollutants such as road salts, agricultural and highway runoff, chemical spills, and saltwater intrusion on water supplies and aquatic ecosystems.

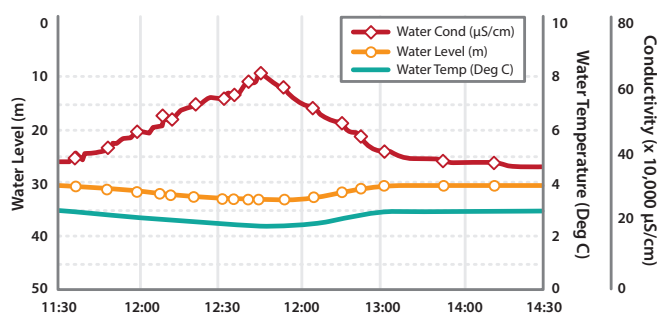
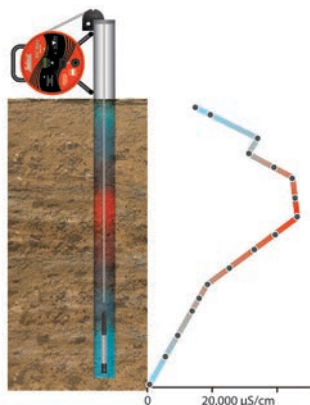
As conductivity measurements are required to be temperature compensated, and water level data is always necessary, Solinst offers two tools that can provide this information, using either manual methods or by datalogging.

### Depth Discrete Monitoring

The Solinst TLC Meter has been specifically designed to be an easy-to-use, economical temperature and conductivity profiler and water level meter for wells and surface water applications. It is excellent for detecting contaminant inflows, monitoring salinity levels, and obtaining early warnings of changes in water quality at landfills and industrial sites.

The TLC Meter features a 'smart' probe with platinum electrodes, providing accurate temperature and conductivity measurements from 0–80,000  $\mu\text{S}$ . The 3/4" (19 mm) diameter probe measures electrical conductivity that has been standardized to 25 degrees Celsius, that displays as Specific Conductance.

The probe is attached to high quality PVDF flat tape for depth readings, which is indicated by a light and buzzer. The tape is accurately laser-marked each 1/100 ft or millimeter, in lengths up to 1000 ft or 300 m. The probe and tape are mounted on a sturdy reel making operation easy. Conductivity and temperature measurements are displayed on an LCD display.



### Add Conductivity to Your Monitoring Program

The LTC Levelogger Edge has been specifically designed for long-term monitoring of conductivity changes over time, especially salt-water intrusion studies. The LTC Levelogger Edge has a compact, waterproof, low maintenance, and durable design.

The LTC Levelogger Edge allows accurate datalogging of conductivity along with temperature and water levels as often as every second. The conductivity sensor is a 4-electrode platinum sensor, with auto-ranging capabilities from 0–100,000  $\mu\text{S}$  and calibration from 50–80,000  $\mu\text{S}$ . It measures electrical conductivity that has been standardized to 25 degrees Celsius, i.e.: Specific Conductance.

The LTC Levelogger Edge combines a datalogger, 8-year battery, memory for 27,000 sets of readings, pressure transducer, and temperature and conductivity sensors in a small 7/8" x 7.5" (22 mm x 190 mm) housing. It is simple to deploy, calibrate, and program. Data management is easy using Levelogger Software.

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*High Quality Groundwater and Surface Water Monitoring Instrumentation*

**Solinst**®

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