

Water Level Temperature Meter

Model 201

The Model 201 Water Level Temperature (WLT) Meter is ideal for measuring static water levels, as well as profiling temperature in wells, boreholes, tanks and open water.

Accurate temperature measurements are clearly displayed on an LCD readout on the faceplate, from -20°C to +125°C.

Water level and probe depth measurements are read off the Solinst durable PVDF flat tape. Tape lengths are available up to 2000 ft (600 m).

Also from Solinst, the Model 107 TLC Meter measures water level, temperature and conductivity. (See Model 107 TLC Meter Data Sheet). For datalogging of water level and temperature, see the Model 3001 Levellogger Edge Data Sheet.



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WLT Meter Specifications	
Temperature reading range:	-20.00°C to +125.00°C
Temperature reading accuracy:	+/-0.10°C from -5°C to +50°C; +/-0.50°C outside of that range
Temperature resolution:	0.01°C
Temperature stabilization time:	15 seconds per °C
Probe pressure rating:	Submersible to 1000 ft (300 m).
Probe weight:	3.07 ounces (87 grams)
Probe size:	5/8" dia., 5.08" long (16 mm x 129 mm)
Wetted materials (tape/probe):	PVDF, Santoprene, Delrin, Viton, 316 stainless steel
Operating temperature of reel:	-20°C to +60°C
Battery life:	90 hours
Auto-off:	8 minutes
Standard Tape lengths:	Meters: 30, 60, 100, 150, 250, 300 Feet: 100, 200, 300, 500, 750, 1000

Water Level Temperature Meter Features

- Accurately measure temperature from -20°C to +125°C
- Tape lengths to 2000 ft (600 m)
- Corrosion and chemical-resistant PVDF flat tape
- Standard 9V alkaline battery gives 90 hours of use
- Automatic shut-off after 8 minutes
- Sturdy, standalone reel with ergonomic handle and brake
- No user calibration is required

Water Level & Temperature Applications

Water temperature has a direct affect on the biological activity of aquatic plants and animals, as well as many aspects of water quality and chemistry; therefore, it is an important parameter to monitor.

The Model 201 Water Level Temperature Meter is ideal for:

- Profiling temperature in wells and open water
- Detecting runoff, points of inflow, or other sources of thermal pollution
- Early warning of changes in water quality, including dissolved oxygen levels and conductivity
- Monitoring and predicting changes in aquatic environments
- Geothermal drilling and studies

Water Level & Temperature Probe

The 201 Probe is made of high quality 316 stainless steel. The pressure-proof probe can be submerged to 1000 ft (300 m). The zero measurement point on the probe is close to the tip, keeping water displacement at a minimum.

The temperature sensor is located at the stainless steel tip of the probe, however, since the probe body acts as a heat sink, best accuracy is obtained when the probe is completely submerged. The tape seal plug design allows the probe to be easily replaced, if required.



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WLT Meter Measurement Principles

When the zero point of the 201 Probe enters water, an electric circuit is completed, activating the buzzer and light. The depth to water is then read off the flat tape.

Temperature readings are read off the LCD display. As the probe is lowered to take temperature measurements at discrete depths, the buzzer can be turned off by pressing the button two times quickly. This is ideal when profiling temperature.



A Tape Guide allows depth measurements to be read at the marked position on the Tape Guide, to give reliable, repeatable, accurate depth measurements when profiling a well. The Tape Guide protects the tape from damage on rough edges of well casing.

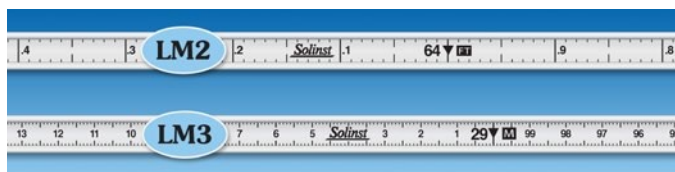
Laser Marked PVDF Flat Tape

The WLT Meter uses extremely durable PVDF flat tape. The tape is non-stretch and has a dog bone design that prevents adherence to wet surfaces. The tape reels smoothly, remains flexible and hangs straight, regardless of temperature. It is also easy to repair and splice.

The 3/8" (10 mm) wide tape has permanent laser markings every 1/100 ft. or each millimeter, traceable to NIST and EU measurement standards.

LM2: Feet and tenths: with markings every 1/100 ft.

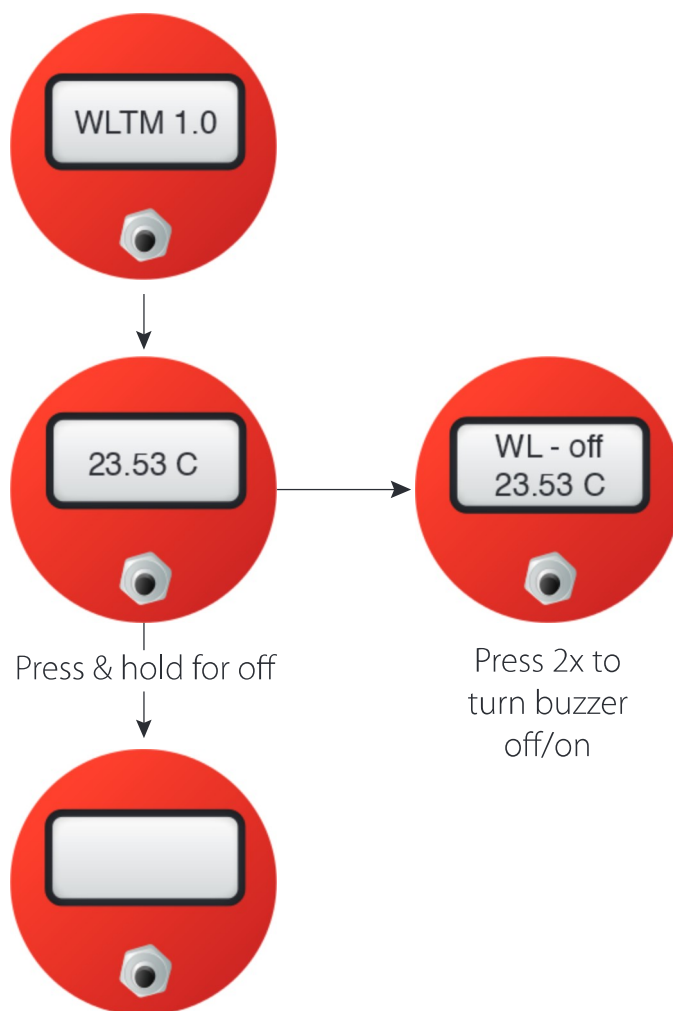
LM3: Meters and centimeters: with markings every mm



Water Temperature Display Menu

When the meter is turned on, the LCD screen displays the firmware version of the WLT Meter (e.g. "WLTM 1.0") for about two seconds. The LCD will then display the temperature reading, in or out of water.

The LCD menu is simple to operate. Pressing the button two times quickly deactivates the buzzer (the light stays active). To reactivate, press the button two times quickly. To turn the meter off, press and hold the button for two seconds.



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