

The Digital TDT<sup>®</sup> Sensor is the industry's only stable, absolute moisture sensor enabling accurate irrigation control. It is the finest sensor available on the market.



The Acclima Digital TDT<sup>®</sup> Soil Moisture Sensor represents a revolutionary advance in the irrigation industry. Using patented digital Time Domain Transmissometry it directly measures the travel time of electromagnetic pulses through the soil from which permittivity and water content are calculated using first principles of physics. This provides highly accurate absolute readings of soil moisture under all conditions of temperature and soil chemistry. Independent verification from leading researchers are available upon request.

## Features:

- Reads soil water content with 97% accuracy
- Reads soil temperature
- Reads soil conductivity
- **Industry's most accurate and stable** soil moisture sensor
- Operates accurately in all environmental soil conditions
- No maintenance, simple permanent installation
- Sturdy construction to ensure long-term reliability in any soil
- Moisture readings remain stable as soil salinity and fertilizer content change
- Moisture readings remain stable as soil temperature changes
- Includes an internal zone switch to facilitate simple, low-cost wiring into a nearby valve box
- Soil moisture readings range from 0% in air to 100% when fully immersed in water
- For use with Acclima controllers

Acclima, Inc., 1763 W. Marcon Ln., Ste. 175, Meridian, ID 83642

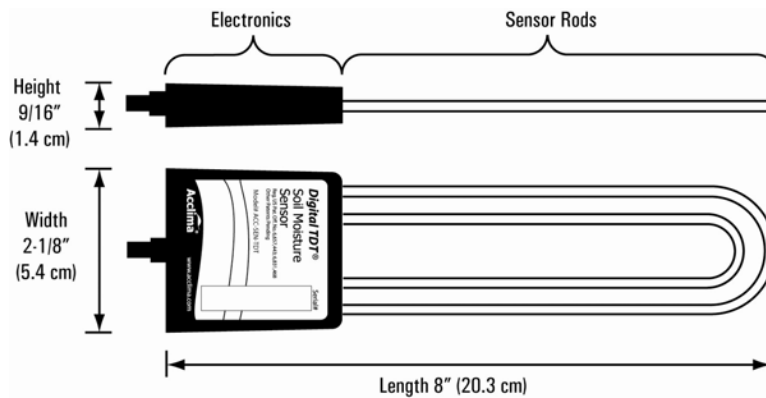
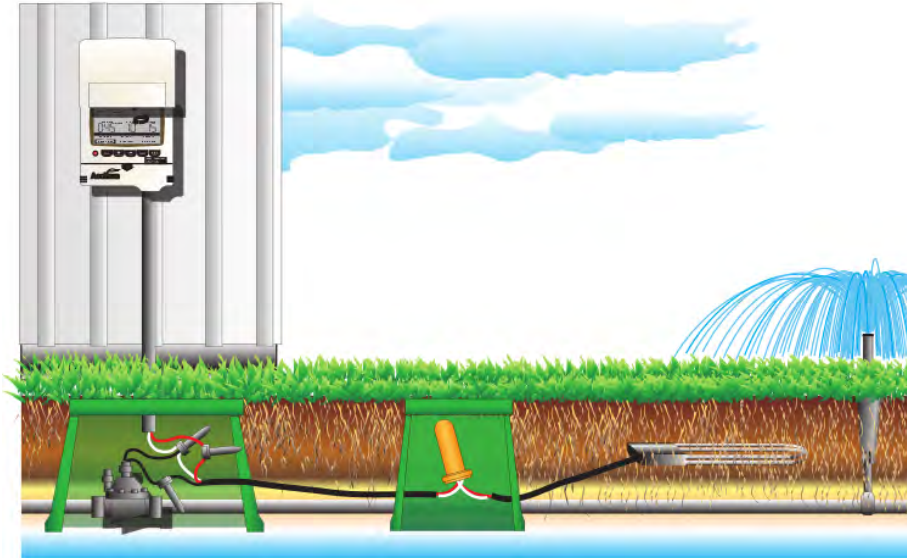
Toll Free: 866-887-1470 Fax: 208-887-6368

www.acclima.com

Rev 03/10

  
**Acclima**  
Closed Loop Irrigation Systems





## Operating Specifications:

- ✓ Internal zone switch controls one solenoid valve
- ✓ Durable and waterproof epoxy constructed housing
- ✓ Moisture reading accurate to  $\pm 3\%$  full scale from 33°F to 122°F (0.5° to 50°C)
- ✓ Moisture reading stable  $\pm 1\%$  full scale for range 0-3 dS/m
- ✓ Temperature reading accurate to  $\pm 1^\circ\text{C}$

## Electrical Specifications:

- ✓ 24 VAC
- ✓ Operating Temperature Range 33°F to 122°F (0.5°C to 50°C)
- ✓ Survival Temperature Range: -31°F to 176°F (-35°C to 80°C)
- ✓ Power consumption 3.5mA when idle and 50mA when reading
- ✓ Built in switch with short circuit protection
- ✓ Maximum switch current 750mA

## Physical Specifications:

Width: 2 1/8" (5.4 cm)  
Height: 9/16" (1.4 cm)  
Length: 8" (20.3 cm)  
Wire Length: 36" (91.4 cm)