



Introduction – What is turfRad?

turfRad is an advanced soil moisture mapping solution that helps golf courses optimize playing conditions and conserve natural resources.

Using patented L-band microwave sensing technology, turfRad quickly collects thousands of high-resolution, root-zone soil moisture measurements with no extra labor.



Key Features

- Subsurface moisture mapping using patented L-band technology.
- Automatic data upload provides actionable information in real time.
- Rugged and waterproof sensor built for durability.
- GPS-enabled measurements for precise mapping.

How It Works

Harnessing Space Technology for Golf Course Management

The European Space Agency has used L-band microwave sensing for over a decade to measure global soil moisture from space. TerraRad Tech miniaturized this technology into a portable, high-resolution sensor to bring the power of satellite data to the ground.



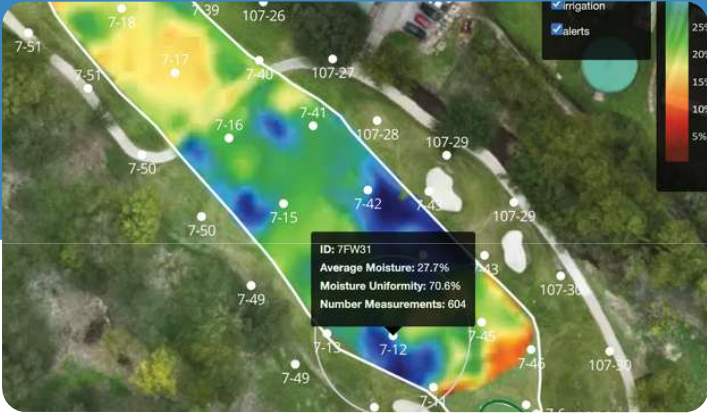
How turfRad Works

1. **Mounted Sensor** – Easily mounts on to a golf course mower or UTV.
2. **Continuous Measurement** – Captures 7 measurements per second.
3. **Automatic Data Upload** – Transfers data via Wi-Fi.
4. **Generates Moisture Maps** – Provides visual soil moisture insights.

How It Creates Value

Actionable Information for Course Management

- Dial-in irrigation runtimes for individual sprinklers.
- Identify irregularities in the irrigation equipment before issues escalate.
- Detect persistent wet/dry areas and adjust treatments accordingly.

An aerial photograph of a golf course with a digital irrigation overlay. The overlay uses a color gradient to represent moisture levels, with a legend on the right side showing a scale from 5% (red) to 25% (green). The map is divided into sections by white lines, and various numerical labels (e.g., 7-51, 7-18, 7-17, 7-40, 7-16, 7-41, 7-50, 7-15, 7-42, 7-43, 107-26, 107-27, 107-28, 107-29, 107-29) are placed across the map. A legend in the top right corner shows a blue square for 'Irrigation' and a blue square for 'alerts'.

Features to Monitor Soil Moisture Trends

Card View: Consecutive days side by side to track moisture trends over time with key stats in one window.

Compare View: Swipe to seamlessly compare moisture data on the same fairway across different days.



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