

turfRad

TORO®

DETECTING ROOT-ZONE SOIL MOISTURE

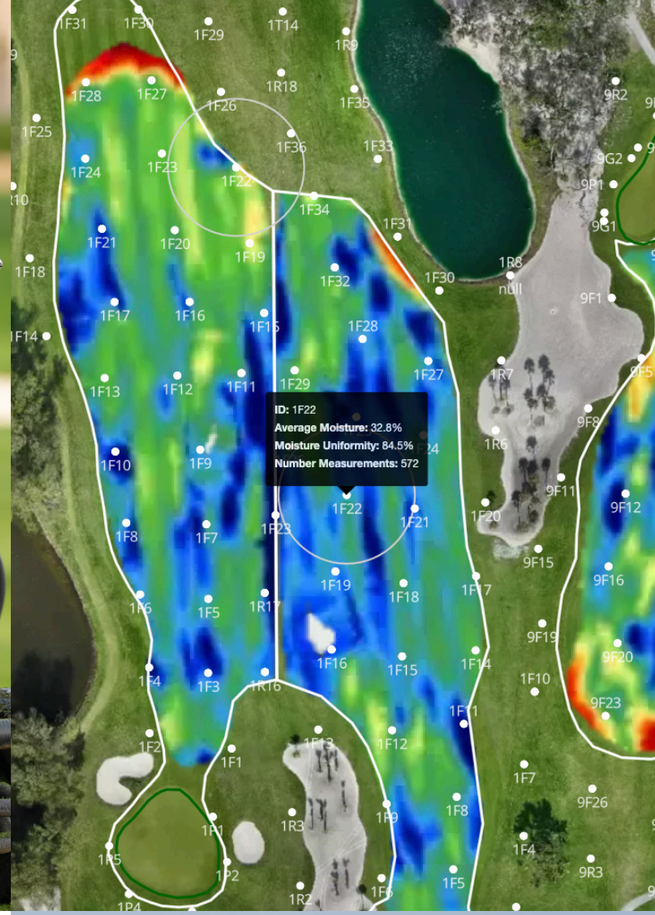
WITHOUT TOUCHING THE TURF



Easy, Fast & Intuitive

No Software installation required, with easy access to your data on any device

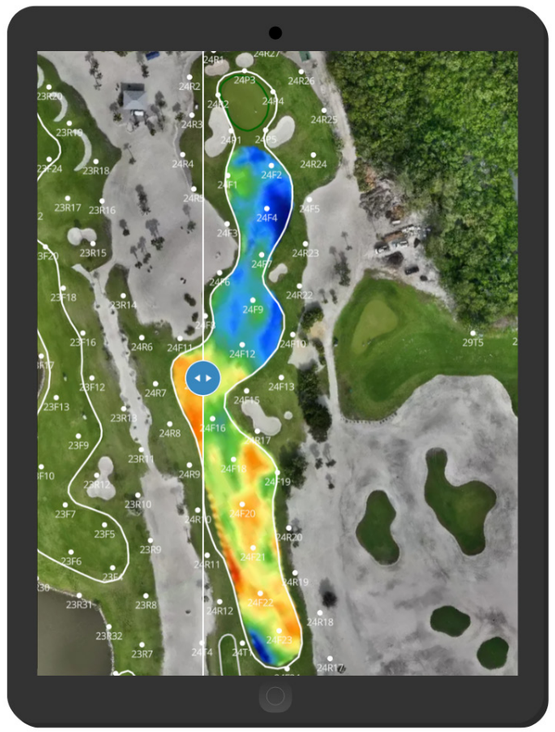




Map while you mow

Capture accurate soil moisture data while you mow, with no additional labour or time required









ACTIONABLE INFORMATION
FOR COURSE MANAGEMENT

FEATURES

turfRad is a speciliased soil moisture sensing system designed primarily for golf courses. It uses passive micro-wave sensing technology to measure the soil moisture content in the soil without disturbing the turf.

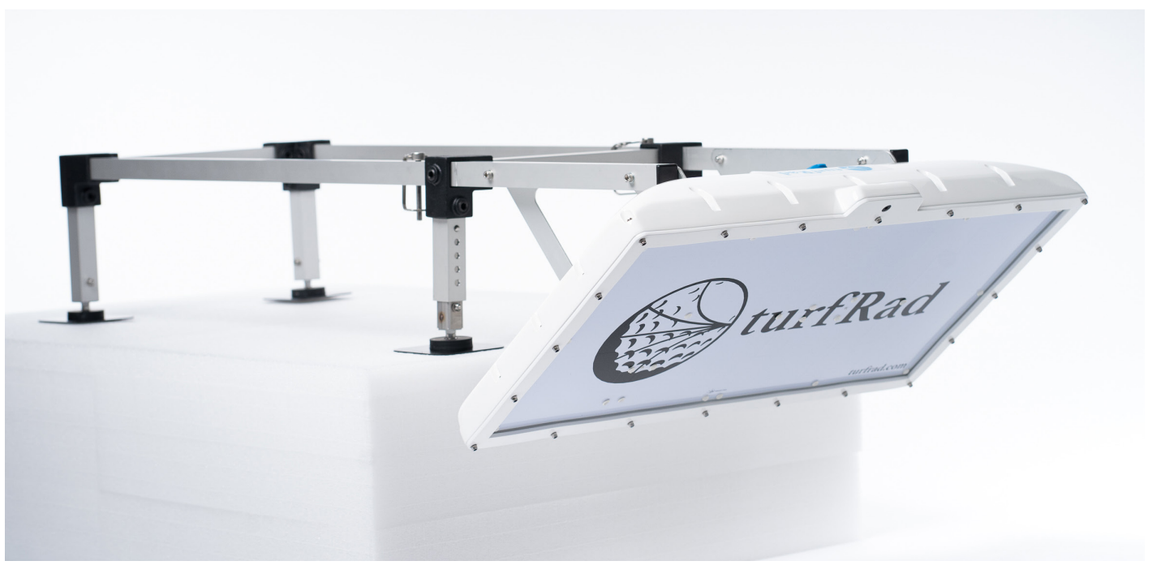
turfRad provides soil moisture maps that help optimize irrigation, reduce water and energy use and improve turf health and playability. turfRad allows turf professionals precise control over individual sprinkler heads, giving you next level control.

Vehicle Mounted
Sensor mounts to mowing equipment using magnetic bracket, causing no damage to the equipment

Non-Invasive
turfRad measures soil moisture up to 10 cm deep without touching the turf surface

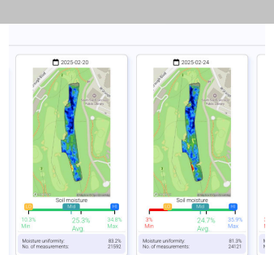
Continuous Readings
With readings taken every 7 seconds, turfRad provides an esimate of up to 10,000 readings on an average fairway

User Friendly
Easy to Install, Easy to Use and Easy to Read - turfRad requires no advanced training or agronomy knowledge to use or understand the data



ADDITIONAL FEATURES









Intuitive
Data from the sensor is mapped in an intuitive format for viewing on PC or Mobile Device

Multiple Formats
Monitor data in several formats, including side-by-side card view comparisons, showing you how your soil moisture is changing

GPS Mapped
GPS enabled sensor maps readings across course for accurate location of each reading taken

Adaptable
Installation can be adapted to suit utility vehicles where the standard bracket may not suit, providing ultimate versatility in use

SPECIFICATIONS

SENSOR SPECIFICATIONS
- **Sensor Size:** 63 x 36 x 13 cm
- **Mount Size:** 105 x 38 x 21 cm
- **Sensor Weight: 5** kg
- **Mount Weight:** 5 kg

POWER SPECIFICATIONS
- **Input Voltage Range:** 9 - 18 VDC
- **Power Consumption with USB adaptor:** 5V 2A
- **Power Consumption:** 4.5 W

SYSTEM SPECIFICATIONS
- **GPS Accuracy:** 1 - 1.5 m
- **Wi-Fi Band:** 2.4 GHz
- **Used Network Ports:** 443 (HTTPS) and 8883 (MQTT)
- **Measurement Technique:** Passive microwave radiometer
- **Water Resistance:** Splash-proof

WARRANTY
- Two years

ORDERING INFORMATION

TURFRAD

Model Number	Description
TR-SENSOR	TurfRad Sensor with Mounting Bracket
TR-1Y-18H	TurfRad Software - 12 month plan for 18 holes
TR-1Y-9H	TurfRad Software - 12 month plan for additional 9 holes
TR-3Y-18H	TurfRad Software - 36 month plan for 18 holes
TR-3Y-9H	TurfRad Software - 36 month plan for additional 9 holes

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turfRad Terms of Service

turfRad requires the purchase of Software to operate, which must be renewed either every 12 months or 36 months depending on software package purchased. By purchasing this product and accepting these Terms and Conditions of use, you agree to Toro invoicing you for the use of this product 30 days in advance of its software plan coming due for renewal.

You shall provide payment directly to Toro and Toro will renew the software plan for the following 12 or 36 months, depending on your plan. If you fail to pay the invoice, the software plan will expire after 30 days following the renewal notice, and the turfRad product will become inoperable.

The invoice price for renewal will vary depending on software plan length and site requirements. For specific pricing for your site please contact your Toro Area Sales Manager or Customer Service. If the software plan expires, Toro has the authority, in its sole discretion, to terminate the software access immediately, with the turfRad product losing its connectivity to the software.

If a turfRad plan is terminated, it can be re-activated, Re-activation may incur additional charges.