DORGEAN
Beijing Dorgean Electronic Technology Co.,Ltd

Instrument Expert
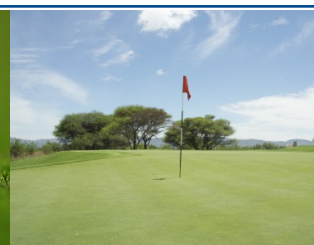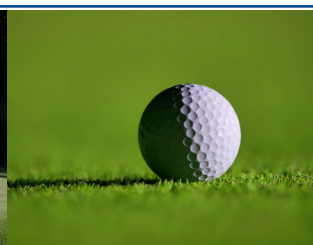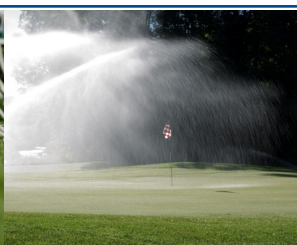**Original factory**
packaging
www.dorgean.com

Soil Moisture Content

AT

LEADING SOLUTIONS FOR SPORTS TURF PROFESSIONALS

NEW

ML3 ThetaKit

The ThetaKit is a powerful tool for optimising turf health

The ThetaKit enables fast, precise soil moisture measurement - enabling turf health to be accurately monitored.

To achieve the best surfaces, turf professionals have many resources to call on, but knowing *where and when* to apply these resources is a major challenge. The ThetaKit provides quick, reliable data to successfully address this issue.

Use the ThetaKit to:

- Spot check soil moisture content quickly and easily

- Identify areas too dry or too wet *before* turf problems become visible

- Quantify background levels of water content that underpin good turf performance

- Schedule optimised irrigation

- Check the performance of automatic sprinklers – and the uniformity of water application

The new ML3 ThetaProbe has replaced the ML2x model. It achieves the same class-leading ± 1% accuracy, but now has detachable cables and a restyled, compact white body.

Delta-T Devices

DORGEAN
Beijing Dorgean Electronic Technology Co.,Ltd

**Instrument Expert
Original factory
packaging**
www.dorgean.com

Soil Moisture Content

AT   LEADING SOLUTIONS FOR SPORTS TURF PROFESSIONALS

Regular measurement of soil moisture content allows continual assessment of grass health - giving early warning of potential problems and enabling the turf manager to take preventative action - *before* damaging physical change in the turf has occurred.

ML3 ThetaKit Features:

- **Soil moisture ±1% accuracy**

- **Highly portable and easy to use**

- **Waterproof and rugged probe, replaceable rods**

- **Minimal soil disturbance**

- **Stores up to 1500 readings with location ID**

Easy to Use:

Taking a Reading:

Step 1: Insert rods fully into the ground

Step 2: Press Read to take a reading ▶

> ML3   Store?
> 20.3% vol

Step 3: Press Store to save or **Esc** to discard reading

Step 4: Remove the probe from the soil and move to a new location for next reading

Taking regularly spaced readings across turf allows you to assess relative changes in soil moisture content over that area. *This concept is illustrated in Fig 1&2 below, where moisture levels are colour coded.*

By repeating this process regularly the behaviour/quality of your turf can be characterised against weather and management practice - allowing you to optimise quality.

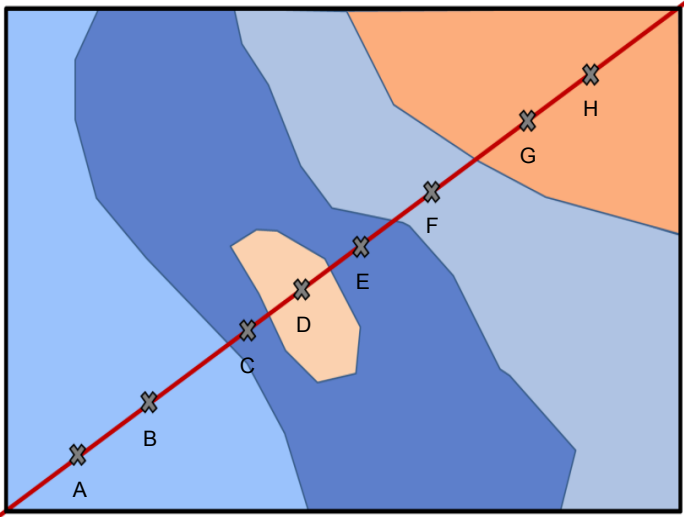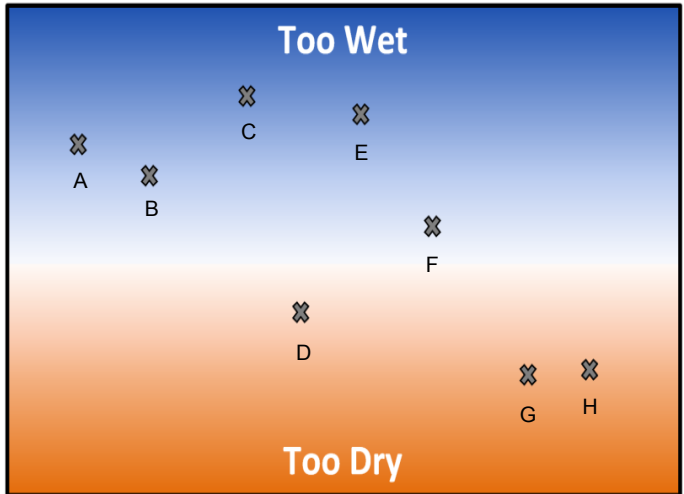**ML3 ThetaKit Spot Readings - Soil Moisture Variation Across Turf (A-H)**

Fig. 1

Fig. 2

Above diagrams are for illustrative purposes only.

ML3 ThetaKit Brief Specification

Range	0-100% soil water content
Accuracy	±1% (for 0-50% range)
Power	9V PP3 battery (approx 5000 readings)
Sampling volume	6cm x 3cm diameter cylinder
Environmental Sealing	Waterproof (IP68 – for sensor only)
Memory	Up to 1500 readings