TurfPod 2

Instruction manual



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English – Original Instructions

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Preface

Thank you for using the SGL TurfPod 2.

This manual contains all the information required for the safe installation, operation, and maintenance of the TurfPod 2. Read this manual carefully before using the product. Store this manual in an accessible place near the product for future reference.

This manual is intended for groundsmen and greenkeepers of grass sports playing surfaces who use the product as part of their job.

Used symbols and signal words

This manual includes warnings and notices on safe and effective handling of the product. These notes and warnings are accompanied by the following symbols and signal words. Read them attentively!

DANGER	Indicates a hazardous situation that, if not avoided, will result in death or serious injury.
WARNING	Indicates a hazardous situation that, if not avoided, could result in death or serious injury.
CAUTION	Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.
NOTICE	Indicates information considered important but not hazard-related (e.g. messages relating to property damage).

Warranty

SGL warrants that any product delivered by and/or on behalf of SGL will function according to the specifications laid down by SGL for a period of twelve (12) months from the date of delivery. The warranty term shall not recommence in case of replacement and/or repair of the products concerned. The original warranty period shall in all cases remain intact.

Limitation of liability

SGL accepts no liability for damage by:

- Failure to comply with these operating instructions
- Unintended use
- Unauthorised modifications
- Technical changes
- Use of spare parts not recommended by the manufacturer

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Violations will result in liability for damages. We reserve the right to further claims.

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1 Introduction

1.1 Quick Start Guide

1. Charge TurfPod 2 to activate, using the USB-C until battery LED turns green
2. Connect the TurfPod 2 to your TurfBase Account by scanning the unique QR code on the packaging
3. Slide sleeve up to expose soil pins
4. Insert TurfPod 2 vertically into the pitch by hand
5. Wait for both LEDs to blink green
6. View data in TurfBase

   Note: It may take up to 20 minutes for data to become available in TurfBase in the morning, and up to 65 minutes during the night.

1.2 Product description

The TurfPod 2 is a grass field measurement device intended to give insights into the conditions of the grass and the soil.

The product uses 4G LTEm technology to communicate with the cloud and does not require additional hardware or support.

The product is compatible with SGL customer TurfBase products and requires a proper set up and configuration to operate correctly.

Using six or more TurfPod 2 units on the same pitch enables the heatmap functionality in TurfBase.

Please read the entire manual before operating the product.

1.3 Intended use

The product is intended to be used by groundsmen and greenkeepers of grass sports playing surfaces.

The product is NOT intended to be used by:

- Persons aged under 18
- Persons with reduced physical, sensory or mental capacity
- Persons who are under the influence of alcohol or drugs

The product was designed to be easy to use. A single button interface allows the user to activate the product, check it's status, and also reset the TurfPod 2 if needed.

The product is intended to be used in combination with other SGL products.
The product is intended to be used in natural or hybrid grass pitches.

Use of the product and the tools provided with it for any purpose other than those described in this manual absolves Stadium Grow Lighting B.V. of all responsibility.

2 Safety

2.1 General safety precautions

WARNING

- Never open the product to attempt to service. Doing so can damage the product and will void the warranty.
- In case of questions or doubts contact SGL via phone: +31 79 593 38 01 or email: service@sglsystem.com.

2.2 Transport and storage

This section concerns the transport of a product to another grass area or to the storage.

NOTICE

- Make sure that the product is completely and correctly stored before transport.
- To ensure optimal battery life and performance, never leave the product for an extended period of time on a dead battery.

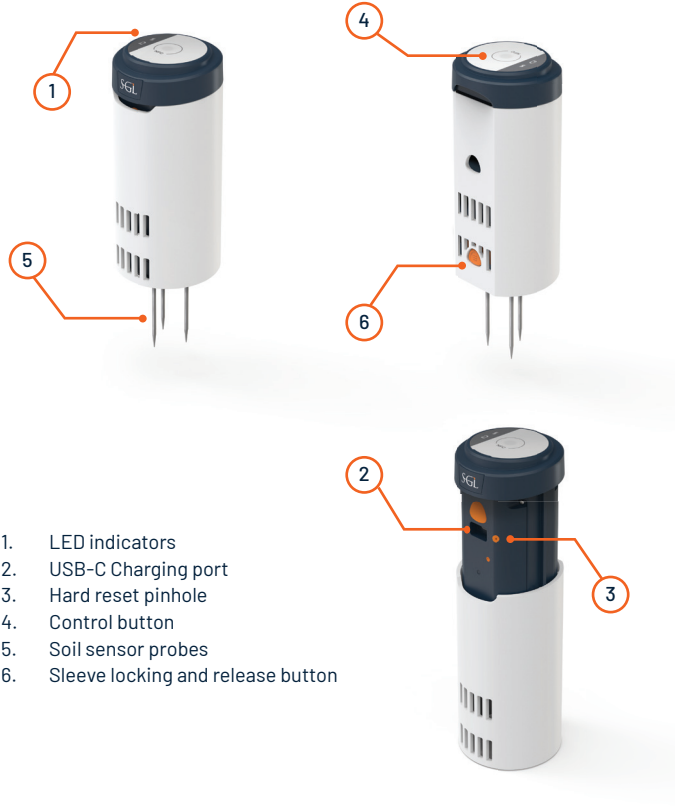
2.3 Operation

IMPORTANT - READ BEFORE USE

WARNING	• Soil sensor probes are extremely sharp and should be handled with care. • Make sure the outer sleeve is in either the up or downward locked position to avoid unintentional exposure of the soil sensor probes.
CAUTION	• Never use a tool, your foot or other device to press the product into the pitch, simply press with your hand. If you encounter resistance, remove the TurfPod 2 and retry in a different position. • Do not force the product into overly hard pitch/soil, this may damage the sensor soil sensor probes. • Do not submerge the product into water.
NOTICE	• Always install the product in an upright position as level as possible to ensure proper light readings. • GPS signals can take up to 60 minutes to reach optimal accuracy; we advise that once installed you do not move the product too frequently. This will cause less accurate location reporting and also impact battery life. • To avoid damage on to the pitch on the sample area it is recommended to move the TurfPod 2 every 24 hours. • Avoid unintentional shadow over the TurfPod 2 as that might impact light sensor readings.

3 Product overview

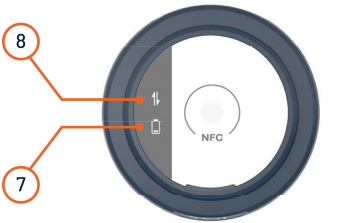
3.1 Main parts



1. LED indicators
2. USB-C Charging port
3. Hard reset pinhole
4. Control button
5. Soil sensor probes
6. Sleeve locking and release button

3.2 Control indicators

7. Battery indicator
8. Connection indicator



3.3 Included equipment

Your TurfPod 2 comes with the following items:

- USB charging cable
- User manual

3.4 Specifications

Dimensions	240 mm (H) x 78 mm (Dia) (Measurements including pins) 170 mm (H) (Body height, above the pitch when installed)
Weight	590 gram
IP Rating	IP67 - Suitable for outdoor use in rain and irrigation environments
Display	LED multi-status display
Interface	Single button interface
Power system	Internal battery (Not user serviceable)
Battery life	> 30 days (dependent on environmental conditions)
Charging	USB – C port charging
Data sampling day / night	5 minutes / 15 minutes
Transmission day / night	20 minutes / 60 minutes
Communication	4G LTEm
Auto location	GPS (± 5m with open sky and the minimum required satellite locks) Closed environments decrease GPS accuracy
Built-in accelerometer	Event monitoring to improve performance and extend battery life
Low power mode	Reduces transmission intervals on low power

3.5 Agronomical specifications

Parameter	Range	Accuracy	Resolution	Units
PAR	0 to 2500	5%	1.0	µMol/m^2/s
Air temperature	-20 to 60	± 0.5	0.1	Celsius
Relative humidity	0 - 100	± 2	0.1	%
Soil temperature	-10 to 50	± 0.5	0.1	Celsius
Soil moisture	1.5 to 50	± 3.33	0.1	%
Soil EC (Pore)	0.5 to 3	10%	0.1	mS/cm

4 Operation

4.1 Installing the product

1. FIRST USE ONLY: The TurfPod 2 is in shipping mode after unboxing. To make it operational, connect it to the charger until the LED lights turn on. After that it is ready to use.
2. Place the outer sleeve in the upright position, exposing the soil pins. Ensure the sleeve is locked and cannot move.
3. Place the product completely vertical. This will ensure accurate PAR readings.
4. Press the product with your hand into the pitch.
5. When the TurfPod 2 detects soil insertion, it automatically begins measuring and transmitting data.
6. Move the product at least 25 cm/1 ft every 24 hours to minimize any impact of the pitch quality under the product.

4.2 User interface



Control button



NOTICE

In normal state the LED indicators are off and will blink once per minute.

1. **Press the button** to show the status of the battery and connectivity
2. After three seconds the indicator lights switch off and TurfPod 2 returns to normal function.
3. The light displays green, yellow, or red, indicating high/medium/low battery level or strong/moderate/weak LTE signal.

4.3 Indicator light colour explanations

	Battery	Cellular
	• High battery level (75%-100%)	• Strong signal / stable connectivity
	• Medium battery level (25%-75%)	• Moderate signal strength
	• Low battery level (< 25%)	• Weak signal / device may not be able to connect to the network

LEDs behaviours

Battery is currently charging	→	Battery LED blinks Green/Yellow/Red
Data is being transmitted	→	Cellular Signal Strength LED blinks
TurfPod 2 is **inserted into soil**	→	Both LEDs blink Green
TurfPod 2 is **removed from soil**	→	Both LEDs blink Red

4.4 Resetting the product

NOTICE

- Only hard reset the product if it is instructed by SGL Service Team

Soft reset

A soft reset forces the TurfPod 2 to reboot. This can help if it is not working properly.

1. Press and hold the control button for 5 seconds or more.
2. If the reset is succesful LED lights will start to blink, which indicates that the reset is taking place. Both LEDs will blink and become solid yellow colour.
3. Please wait for a couple of minutes for the TurfPod 2 to reboot itself.

Hard reset

A hard reset cuts all power to the system. Only use this feature if instructed by the SGL Service Team, and if the soft reset does not solve the problem.

1. Locate the pin hole reset button.
2. With a small pin (i.e. needle) press and hold the button for 10 seconds or more.
3. If the reset is successful LED lights will start to blink, which indicates that the reset is taking place. Both LEDs will blink and become solid yellow colour.
4. Please wait for a couple of minutes for the TurfPod 2 to reboot itself.

4.5 Charging

The TurfPod 2 has a USB-C port for charging.

1. Slide the outer sleeve down to reveal the charging port. The TurfPod 2 can stand on the sleeve when charging.
2. Use the supplied USB-A to USB-C cable to charge the TurfPod 2.
3. Connect the USB-A connector to a suitable power supply and the USB-C connector to the TurfPod 2.
4. The battery indicator light blinks indicating charging has started.

Recommended power supply: 5 V DC, minimum 0.8 A (800 mA).

Nominal charging time: 12–14 hours (0–100%).

NOTICE

- It is not required to fully charge the product to use it.
- The product is designed to last approximately 1 month on a single full charge. Poor radio connection and GPS signal quality can reduce battery life.
- The battery in the product is not user serviceable. Never attempt to open the product as the components are extremely sensitive.

5 Transport and storage

NOTICE

- Make sure that the product is completely and correctly stored before transport.
- To preserve battery life and performance, do not store the product for extended periods with a fully discharged battery.

5.1 Standby mode

The TurfPod 2 enters standby when the product is not placed in solid ground and there is no light detected.

NOTICE

- There is no On / Off switch for the product. The product is active and ready to use after removing it from the soil. Always ensure there is some charge on the battery by pressing the user button. If there is no battery level indicated, charge the TurfPod 2 fully before continuing to use.

6 Maintenance

If you are unable to solve issues, please contact SGL via phone: +31 79 593 38 01, email: service@sglsystem.com, or create a service request.

Never attempt to service the product. Doing so will void all warranty/service options and could cause you to incur additional costs for damage.

6.1 Cleaning

Clean the TurfPod 2 regularly using a damp cloth. Do not use running water directly on the TurfPod 2. If the TurfPod 2 has been submerged in water, clean it thoroughly before use or charging.

Do not use detergents, abrasive materials, or aggressive chemical cleaning agents.

To ensure accurate light measurements, gently wipe the top surface before inserting when you place the TurfPod 2 into the soil. If water has built up on the top surface, simply wipe it away with your hand/finger to help avoid the water collecting dust/dirt.

7 Troubleshooting

7.1 No lights come on when you press the button

The battery is likely low or dead.

Charge the TurfPod 2 for an extended period of time until the battery indicator shows green.

7.2 The radio/cloud indicator flashes red

There is no radio connection to the cloud or cellular service.

If you are in a closed space, take the product to an open area and give it up to 30 minutes to connect.

TurfPod 2 reset

If above steps do not help and TurfPod 2 is not working properly a soft reset and hard reset can be performed.

Soft reset forces the TurfPod 2 to reboot.

A hard reset cuts all power to the system. Only use this feature if instructed by the SGL Service Team, and if the soft reset does not solve the problem.

Please refer to chapter 4.4 on page 16 for instructions on how to perform product reset.

8 Disposal

Never dispose of the product. Please return the product to SGL for proper disposal.

9 Disclaimer

Despite the care and attention devoted to putting this manual together, it is possible that the information presented may be incorrect or incomplete. SGL B.V. reserves the right to make changes to the manual without noti ication beforehand.

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