GROUNDWORX®

# GX-1 Installation Guide

**Prongs always in undisturbed sidewall soil. Native soil back. GAIN check.**

Native soil goes back in the hole, the turf plug goes back on top, and a GAIN portal check confirms live readings before anyone leaves the site.

## TOOLS ON THE TRUCK

- 7-inch turf plugger
- 6-inch hand auger
- Shovel (GX-1S three-hex hole only)

The plugger and auger cover every standalone GX-1 install; the shovel is only for the GX-1S larger hole. No slurry, no amendments.

## GX-1A (ADJUSTABLE) / TURF, FAIRWAYS AND COMMON AREAS

One 6-inch-wide, 12.5-inch-deep hole with a 1-inch pea-gravel base. The sensor stands vertical against the sidewall, drainage hole down, resting on the gravel.

**01 Check the signal**

Before any digging, stand directly above the dig site, remove the magnet from the sensor and hold for 30 seconds to wake it, then check signal strength in the GAIN mobile app. Set the sensor aside while the hole is dug. If the app flags a bad spot - roughly 1 in 100 sites - put the magnet back on, tap Abort in the app, and repeat the check at a new location.

**02 Cut the plug**

Remove the turf plug where the sensor will live with the 7-inch turf plugger, and keep the plug for the finish.

**03 Open the hole**

Widen the hole to 6 inches with the 6-inch hand auger and dig to 12.5 inches deep.

**04 Lay the gravel**

Pour 1 inch of pea gravel across the bottom of the hole.

**05 Seat the sensor**

Stand the GX-1A vertical against the sidewall with the drainage hole at the bottom, resting on the pea gravel. Push the prongs into perfect, undisturbed soil in the sidewall - the key element of the install.

**06 Backfill**

Return the native soil only - no amendments - back up to grade.

**07 Replace the plug**

Set the turf plug back on top and tamp it in flush with the surrounding surface.

**08 Confirm in GAIN**

Confirm live readings in the GAIN portal before leaving the site.

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## GX-1F (FLEX-CORD) / TREES AND PLANTED SPACES

The same 6-inch-wide hole taken down to the root-ball zone, a 1-inch pea-gravel base, and a vertical sensor with the drainage hole down. The 44-inch flex cord runs up to the body at the top of the hole.

**01** **Check the signal**
Before any digging, stand directly above the dig site, remove the magnet from the sensor and hold for 30 seconds to wake it, then check signal strength in the GAIN mobile app. Set the sensor aside while the hole is dug. If the app flags a bad spot - roughly 1 in 100 sites - put the magnet back on, tap Abort in the app, and repeat the check at a new location.

**02** **Cut the plug**
Remove the turf plug with the 7-inch turf plugger and keep it for the finish.

**03** **Open the hole**
Use the same 6-inch-wide hole, dug down into the root-ball zone - never below the 44-inch maximum root-ball measurement depth.

**04** **Lay the gravel**
Pour 1 inch of pea gravel across the bottom of the hole, just like the GX-1A.

**05** **Seat the sensor**
Stand the sensor vertical against the sidewall with the drainage hole at the bottom, resting on the pea gravel. Push the prongs into perfect, undisturbed soil in the sidewall - the key element of the install.

**06** **Route the cord**
Run the 44-inch flex cord up to the transmitter body, which sits at the top of the hole - no more than 8 inches below grade.

**07** **Backfill**
Return the native soil only back up to grade.

**08** **Replace the plug**
Set the turf plug back on top and tamp it in flush with the surrounding surface.

**09** **Confirm in GAIN**
Confirm live readings in the GAIN portal before leaving the site.

## iQ SMARTWELL / INSTALLED FIRST, SEPARATELY

The iQ SmartWell is its own job: 14 inches tall, 6 inches round, with a secured lid flush to the ground so mowers travel over it. Wells go in first; the GX-1F (shown without its cover) comes to them afterwards.

**Full iQ SmartWell guide: getgroundworx.com/installation#iq-smartwell**

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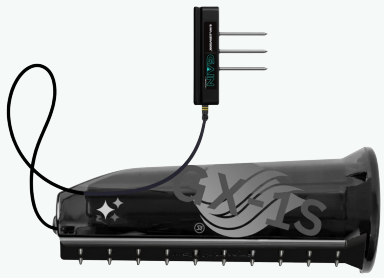


## GX-1S (SIDE-MOUNT) / THREE-HEX SIDE-MOUNT INSTALL

Three 7-inch hex plugs cut side by side open one larger hole. The device lies on its side about 12 inches down, so its top sits at 8 inches, and the sensor goes into pure undisturbed sidewall soil.

**01** **Check the signal**
Before any digging, stand directly above the dig site, remove the magnet from the sensor and hold for 30 seconds to wake it, then check signal strength in the GAIN mobile app. Set the sensor aside while the hole is dug. If the app flags a bad spot - roughly 1 in 100 sites - put the magnet back on, tap Abort in the app, and repeat the check at a new location.

**02** **Cut three plugs**
Use the same 7-inch turf plugger to cut three hexes next to each other, remove the turf and keep all three plugs for the finish.

**03** **Open the hole**
With a shovel, dig out one large hole under the three hexes, about 12 inches deep.

**04** **Lay the device on its side**
Place the device down about 12 inches on its side, so the top of the device sits at 8 inches below grade.

**05** **Build back up**
Return the native soil only - no amendments - building it back up around the device.

**06** **Insert the sensor**
As you build the soil back, insert the sensor mechanism into pure, undisturbed soil in the sidewall - period. Never into loosened or backfilled soil.

**07** **Backfill**
Keep building the native soil back up to grade, ready for the turf.

**08** **Replace the plug**
Set the three turf plugs back on top and tamp them in flush with the surrounding surface.

**09** **Confirm in GAIN**
Confirm live readings in the GAIN portal before leaving the site.

## NOTES FROM THE FIELD

- Every model: the sensor prongs always go into perfect, undisturbed sidewall soil. That is the key element of a good reading.
- This guide covers standalone GX-1 series sensors only.

## Confirm in GAIN

Readings go live over LTE Cat-1 the moment the sensor is seated - no app pairing, no site visit to verify.