

GX-1A

Adjustable wireless soil sensor

Know your root zone.
Fine-tune every watering.

Wireless. Adjustable. Autonomous.



GX-1A shown above ground for product detail.
Adjustable sensing for the active turf root zone.



TURF / ROOT-ZONE MONITORING

Golf course fairways • sports fields • common areas

- 01 Adjustable root-zone sensing**
Position sensing probes at the target depth for your turf and soil conditions.
- 02 Wireless monitoring**
LTE wireless connectivity.
Autonomous root-zone monitoring.
- 03 Long-life power**
76 Ah industrial battery.
7-year maintenance-free power life.
- 04 Precision deployment mapping**
±6 inch GPS location precision.
Find and service each mapped sensor.
- 05 Made for living landscapes**
Golf course fairways, sports fields
and common areas.
IP67 waterproof protection.

144

READINGS / DAY

Measured root-zone conditions

Moisture (VWC) / Temperature / Salinity / Dielectric
One reading every 10 minutes.



Turn readings into timely action.

Deep Learning AI • predictive stress alerts • field tasks
Team communications native to the GAIN mobile app.



GX-1F

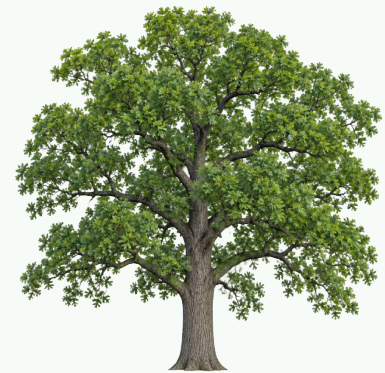
Flex wireless soil sensor

Invisible below ground.
Intelligent above it.

Standalone. Wireless. Autonomous.



GX-1F shown above ground for product detail.
Installed just below the surface, out of sight.



WHITE OAK / *Quercus alba*
Most tree roots: upper 12–18 inches*
*General guidance; site conditions vary.

- 01 Flexible root-zone placement
1–44 inch sensing profile.
Custom cord lengths up to 5 meters.
- 02 Built for independent operation
Standalone LTE wireless connectivity.
Autonomous root-zone monitoring.
- 03 Long-life power
76 Ah industrial battery.
7-year maintenance-free power life.
- 04 Precision deployment mapping
±6 inch GPS location precision.
Find and service each mapped sensor.
- 05 Made for living landscapes
Trees, vineyards and planted spaces.
IP67 waterproof protection.

144

READINGS / DAY

Measured root-zone conditions

Moisture (VWC) / Temperature / Salinity / Dielectric
One reading every 10 minutes.



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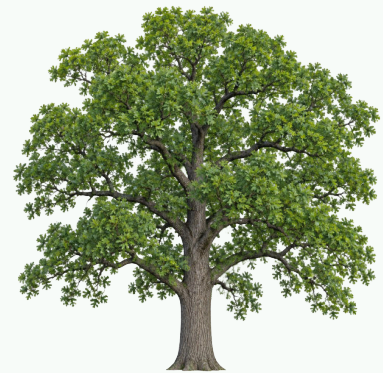


GX-1F

iQ SmartWell Edition

Invisible below ground.
Intelligent above it.

Installs in the iQ SmartWell. Invisible. Wireless.



WHITE OAK / *Quercus alba*

Most tree roots: upper 12–18 inches*

*General guidance; site conditions vary.



01 Flexible root-zone placement

1–44 inch sensing profile.

Custom cord lengths up to 5 meters.

02 Built for the iQ SmartWell

Drops into the RFID/BLE-enabled iQ SmartWell.

Swap or relocate without re-digging.

03 Long-life power

76 Ah industrial battery.

7-year maintenance-free power life.

04 Precision deployment mapping

±6 inch GPS location precision.

Find and service each mapped sensor.

05 Made for living landscapes

Course trees, vineyards and planted spaces.

Pairs with GX-1A in the same iQ SmartWell network.

GX-1F iQ SmartWell Edition: open configuration, no protective cover.

The iQ SmartWell housing protects it just below the surface.

144

READINGS / DAY

Measured root-zone conditions

Moisture (VWC) / Temperature / Salinity / Dielectric

One reading every 10 minutes.



Turn readings into timely action.

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Team communications native to the GAIN mobile app.



GX-1S

Wireless sports-field sensor

Know your root zone.

Fine-tune every watering.

Wireless. Below the surface. Autonomous.



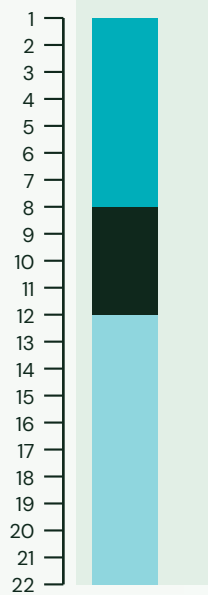
PLAYING-SURFACE MONITORING

Athletic fields • stadiums • racing surfaces



DEPLOYMENT DEPTH

SURFACE



- Reading device — 1–8 in. deep
- GX-1S body — 8–12 in. deep
- Senses 10 in. below the body — down to 22 in.

Illustrative placement; hardware proportions not to scale.

01 Side-buried omnidirectional sensing

Sits beside the root zone, so nothing is under or above the play surface.

02 Wireless monitoring

LTE wireless connectivity.
Autonomous root-zone monitoring.

03 Long-life power

76 Ah industrial battery.
7-year maintenance-free power life.

04 Precision deployment mapping

±6 inch GPS location precision.
Find and service each mapped sensor.

05 Made for living landscapes

Athletic fields, stadiums
and racing surfaces.
IP67 waterproof protection.

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READINGS / DAY

Measured root-zone conditions

Moisture (VWC) / Temperature / Salinity / Dielectric
One reading every 10 minutes.

GAIN

Turn readings into timely action.

Deep Learning AI • predictive stress alerts • field tasks
Team communications native to the GAIN mobile app.



iQ1

SmartTower for production agriculture

Irrigation decisions follow
the root zone — not the calendar.

Standalone. Long-range. Autonomous.



PRODUCTION AGRICULTURE

Open acreage • olive groves • date-palm stands



- 01 Multi-depth soil profile**
One in-ground sensor array reads moisture, temperature and salinity at depth.
- 02 Long-range LTE Cat-1**
Elevation extension mast engineered for large farmland and rural topography.
- 03 Integrated AI weather**
Site-specific ET, rainfall and forecasts alongside soil readings.
- 04 Built for production agriculture**
Open acreage, olive groves and date-palm stands.
- 05 Autonomous with GAIN**
Block-level dashboard and alerting. Satellite NTN fallback in development.

Shown with in-ground sensor array.

Tower stands at the block; array buries to the marked line.

144

READINGS / DAY

Measured root-zone conditions

Moisture (VWC) / Temperature / Salinity at depth
One reading every 10 minutes.



Turn readings into timely action.

Deep Learning AI • predictive stress alerts • field tasks
Team communications native to the GAIN mobile app.



iQ2

SmartTower with two sensor arrays

Twice the ground truth
across broad root zones.

Two arrays. Long-range. Autonomous.



Shown with two in-ground sensor arrays.
Tower stands at the block; array buries to the marked line.



PRODUCTION AGRICULTURE

Open acreage • olive groves • date-palm stands

- 01 Doubled ground-truth coverage**
Two in-ground sensor arrays read multi-depth profiles across the block.
- 02 Long-range LTE Cat-1**
Elevation extension mast engineered for large farmland and rural topography.
- 03 Integrated AI weather**
Site-specific ET, rainfall and forecasts alongside soil readings.
- 04 Broad root zones**
Old-growth olives and large date palms, covered edge to edge.
- 05 Autonomous with GAIN**
Block-level dashboard and alerting.
Satellite NTN fallback in development.

144

READINGS / DAY

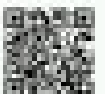
Measured root-zone conditions

Moisture (VWC) / Temperature / Salinity at depth
One reading every 10 minutes, per array.

GAIN

Turn readings into timely action.

Deep Learning AI • predictive stress alerts • field tasks
Team communications native to the GAIN mobile app.



iQ Fire Station

From the air to the ground.

35 elements. One autonomous environmental sensing station.

Air • atmosphere • fuel • soil



FOREST & WILDLAND INTERFACES



8 ft. prototype • two in-ground sensor arrays
5 m soil-array lengths • marked bury line

Air quality & detection 14

- | | |
|----------------------------|--|
| 01 Carbon monoxide (CO) | 02 Carbon dioxide (CO ₂) |
| 03 VOCs | 04 Nitrogen dioxide (NO ₂) |
| 05 Ozone (O ₃) | 06 PM _{1.0} |
| 07 PM _{2.5} | 08 PM ₁₀ |
| 09 Optical smoke | 10 Photoelectric smoke |
| 11 UV flame response | 12 IR flame response |
| 13 Thermal imaging | 14 Visible / low-light |

Atmospheric 12

- | | |
|------------------------|------------------------|
| 15 Air temperature | 16 Relative humidity |
| 17 Wind speed | 18 Wind gust |
| 19 Wind direction | 20 Solar radiation |
| 21 Precipitation rate | 22 Precipitation total |
| 23 Barometric pressure | 24 Lightning strikes |
| 25 Lightning distance | 26 Ambient light |

ET & motion 2

- | | |
|-----------------------|-------------------|
| 27 Evapotranspiration | 28 Accelerometers |
|-----------------------|-------------------|

Fuel & site 3

- | | |
|--------------------------|-----------------|
| 29 10-hour fuel moisture | 30 GPS location |
| 31 Compass heading | |

In-ground 4

- | | |
|----------------------|-------------------|
| 32 Temperature | 33 Moisture (VWC) |
| 34 Conductivity (EC) | 35 Dielectric |

35
ELEMENTS

Planned communications & power

Satellite • Starlink gateways • autonomous LTE • LoRaWAN 900 MHz
Meshed network • 228 Ah lithium • no solar required



Turn environmental signals into timely action.

Mission-critical autonomous alerts • GAIN intelligence
Prototype under development. Specifications subject to change.



iQ Environmental Tower

From the canopy to the root zone.

30 data points. One autonomous field and fairway station.

Air • atmosphere • ET • soil — PURE Insight sensors



FARMLAND, VINEYARDS & GOLF COURSES



8 ft. prototype • two PURE Insight in-ground sensor arrays
5 m soil-array lengths • marked bury line

30

DATA POINTS

Communications & power

Satellite • autonomous LTE wireless
228 Ah lithium • no solar required

Air quality

10

- | | |
|-------------------------|---------------------------|
| 01 Carbon monoxide (CO) | 02 Carbon dioxide (CO2) |
| 03 VOCs | 04 Nitrogen dioxide (NO2) |
| 05 Ozone (O3) | 06 PM1.0 |
| 07 PM2.5 | 08 PM10 |
| 09 Thermal imaging | 10 Visible / low-light |

Atmospheric

12

- | | |
|------------------------|------------------------|
| 11 Air temperature | 12 Relative humidity |
| 13 Wind speed | 14 Wind gust |
| 15 Wind direction | 16 Solar radiation |
| 17 Precipitation rate | 18 Precipitation total |
| 19 Barometric pressure | 20 Lightning strikes |
| 21 Lightning distance | 22 Ambient light |

ET & motion

2

- | | |
|-----------------------|-------------------|
| 23 Evapotranspiration | 24 Accelerometers |
|-----------------------|-------------------|

Site

2

- | | |
|-----------------|--------------------|
| 25 GPS location | 26 Compass heading |
|-----------------|--------------------|

In-ground

4

- | | |
|----------------------|-------------------|
| 27 Temperature | 28 Moisture (VWC) |
| 29 Conductivity (EC) | 30 Dielectric |

GAIN

Turn field conditions into timely action.

Autonomous alerts • GAIN intelligence for farms, vineyards and golf courses
Prototype under development. Specifications subject to change.



iQ SmartWell

Learn below. Act above.

Sample. Move. Recalibrate.
More locations. Less buried hardware.

Flush installation • adjustable sampling depth



iQ SMARTWELL / DEPTH-CALIBRATION SLEEVE



GX-1A

Golf course fairways
& common areas

GX-1F

Trees & deeper root zones
44 in. flex cord • custom to 5 m

Shown exposed: depth markings and soil-sensing probes.

144

SAMPLES / DAY

Measured root-zone conditions

Moisture (VWC) • temperature • salinity (EC) • dielectric
One sample every 10 minutes, per sensor while deployed.

01 Baseline ground truth

Start with a GX-1A or GX-1F in an iQ SmartWell.
Measure the root zone and learn the location.

02 Flush, adjustable, tool-free

The sleeve sits flush beneath the turf.
Depth markings guide each sensor insertion.

03 Instant sensor recognition

RFID identification and BLE auto-pairing
on insertion—no QR or serial entry.

04 Move & expand

Relocate wells once locations are predictable.
Keep wells in place where conditions vary.

05 Return & recalibrate

Store sensors safely between sampling visits.
Return periodically to refresh the baseline.



Turn readings into timely action.

Predictive insights • field tasks • native GAIN mobile app
Sensor-free SmartLocations are AI predictions, not live measurements.



iQ Capsule

A new perspective beneath the surface.

UNDER DEVELOPMENT • TARGET Q2 2027

Concept artwork • specifications subject to change



PLANNED DEPLOYMENT

6–12 inches

Below the surface

SURFACE



Deep root-zone reach

- Samples above and below
- May lie on its side
- Omnidirectional; reads below
- Sports / greens / equestrian
- Select commercial sites

- Sensing range — 1–16 in. deep
- Capsule body — 6–12 in. deep

Depth guide is illustrative, not to scale.

COMPACT FORM. SURFACE-FIRST THINKING.

01 / SPORTS

Athletic fields and managed playing surfaces.

02 / GOLF GREENS

Precision turf and shallow root-zone monitoring.

03 / COMMERCIAL

Select managed landscapes and site-specific deployments.

In development for independent sensing without an iQ SmartWell.



Designed for GAIN intelligence.

Development-stage product. Not currently available.

