MEASURE, REPORT AND MANAGE WITH AN INTEGRATED FAMILY OF ADD-ONS
Adding Growsmart® by Lindsay sensors to your irrigation system can result in input savings and better overall irrigation management. All are designed for simple installation and use, and can be enhanced with FieldNET® by Lindsay wireless irrigation management.

These innovative add-ons help utilize best management practices to offer convenience and lower operating costs through the efficient use of time, labor, energy and water.

Plug-and-play products are designed to work with Zimmatic® by Lindsay systems, as well as other brands.

**Wireless Pump Control**
Starts and stops pumps automatically, and opens/closes valves.

**Flow Meters**
Magnetic flow meter with in-riser installation options.

**GPS Position**
Pinpoint positioning for precision control and monitoring.

**Soil Moisture Monitor**
Saves water by precisely monitoring the full root zone.

**Fertilization & Chemigation Injectors**
Complete range of options designed for uniform application.

**Weather Station**
Durable unit provides field-specific weather data.

**Expand Your Capabilities**

Award-winning FieldNET wireless irrigation management gives you greater control over your plug-and-play add-ons for valuable insight and informed decision-making.

Your local dealer can show you how to maximize efficiencies using FieldNET.
ENHANCE YOUR IRRIGATION MANAGEMENT WITH FIELDNET

As the industry's most intuitive remote management tool, FieldNET provides an integrated water, fertilizer and chemigation solution. It's smarter irrigation, simplified.

FieldNET enhances the power of plug-and-play add-ons so you can monitor and record water and energy usage, soil moisture levels and trends, along with local weather station information such as temperature, wind speed, rainfall, humidity and more.

FieldNET Status Icons and Alerts
Easy-to-use icons and configurable alerts keep you informed.

Good      Alert

- SOIL MOISTURE
- WEATHER
- FLOW METER

Additional Plug-and-Play Sensors
Patent-pending status icons overlay a GPS-assisted map of your operations to help you identify and prioritize any equipment that needs attention.
SAVE RESOURCES WITH THE HIGHLY ACCURATE MAGNETIC FLOW METER

Water management and conservation is an ever-increasing concern for growers. The Growsmart Magnetic Flow Meter IM3000 takes the guesswork out of water usage while saving time, water, energy, and money.

HOW IT WORKS

When water goes through a magnetic field it creates a small voltage pulse. By measuring that voltage, the magnetic flow meter calculates how much water is flowing through the pipe.

Compared to propeller flow meters, the Growsmart magnetic flow meter does not have any moving parts such as propellers or bearings that may break, causing interruptions in measurement and resulting in extra costs. Plus, the magnetic flow meter will not be affected by debris.

IN-RISER FLOW METER

Integrates into the pivot point, and is available for new and aftermarket pivots. No other irrigation company offers these options.

IM3000 BENEFITS

• Superior IP68 enclosure seal
• No moving parts to replace
• No flow obstruction
• Range of sizes
• Minimal straight pipe run required
• Remote management capabilities with FieldNET

ENHANCE WITH FIELDNET

With FieldNET-ready capabilities, the Growsmart magnetic flow meter combines with FieldNET to give you real-time, convenient access for up-to-date status, alerts and reporting.

FieldNET lets you monitor and chart flow rate and volume, and set alerts for flow disparity and battery life.

• Text message alerts for high flow, low flow & battery life
• Reports and historical archiving

International Center for Water Technology (ICWT) is an independent testing laboratory dedicated to advancing water management practices and irrigation technology.

Tested for flow calibration and accuracy by the Utah Water Research Laboratory, Utah State University.
**APPLICATIONS**
- Irrigation
- Wells
- Lagoons
- Agriculture automation

**FLOW MEASUREMENT**

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy (Confirmed by ICWT)</td>
<td>10% – 100% of max flow: ±1% of reading</td>
</tr>
<tr>
<td></td>
<td>Cutoff – 10% of max flow: ±2% of reading</td>
</tr>
<tr>
<td>Measuring Frequency</td>
<td>Battery power: 1/15 Hz</td>
</tr>
<tr>
<td></td>
<td>External power: automatically proceeds with full-speed measurement, with frequency up to 5.5 Hz. Increased measuring frequency results in more accurate and real-time readings</td>
</tr>
<tr>
<td>Range</td>
<td>0.3 ft/s – 39 ft/s (0.1 m/s – 12 m/s)</td>
</tr>
</tbody>
</table>

**WARNINGS**

- Empty Pipe
- Supported
- Coil Open Circuit
- Supported

**BATTERY POWER**

- Battery Life
- 4 – 6 Years
- Battery Level Testing
- Supported
- Battery Replacement
- Supported
- Measure During Battery Swap
- Not Supported

**EXTERNAL POWER**

- Voltage Range
- 6.5 – 32Vdc
- Auto Switch to External Power
- Supported
- External Power Indicator
- Yes

**USER INTERFACE**

- Display Contents
- Flow rate, total, battery voltage, low battery warning, empty pipe warning, flow velocity/direction
- Display Digits
- Rate: 6 digits; Total: 9 digits
- Rate Units
- Gallon/Minute, Liter/Minute, Liter/Second, Cubic Feet/Minute, Cubic Meter/Hour, Million Gallon/Day, Mega Liter/Day
- Total Units
- Acre-Inches, Acre Feet, Gallon, Gallon x 1000, Liter, Liter x 1000, Mega Liter, Cubic Meters, Cubic Meter x 1000, Cubic Feet, Cubic Feet x 1000
- Unit Settings
- Set according to customer requirement before shipment

**OUTPUT**

- Frequency (opt. iso., dry contact)
  - With external power, max frequency 1000Hz
- Pulse (opt. iso., dry contact)
- Communications
  - Supported, requires related hardware

**WORKING CONDITIONS**

- Temperature
  - Operating: 10.4°F – 122°F (-12°C – 50°C)
  - Storage: -40°F – 140°F (-40°C – 60°C)
- Pressure
  - 290 psi (2 MPa)
- Conductivity of Medium
  - >20 uS/cm

**INSTALLATION METHOD**

- Flanged

**PROTECTION RATING**

- Tamper Proof IP68 Enclosure

**CERTIFICATIONS**

- ETL and CE
WEATHER STATION

Your field has its own unique micro-climate. This professional-grade weatherproof unit features sensors for:

- Wind speed & direction
- Solar radiation
- Air temperature (minimum, maximum and average)
- Relative humidity
- Precipitation
- Calculated ET

Historical records are maintained for quick access, with trending charts together on one page.

State-of-the-art weather station includes accurate, low-maintenance tipping rain bucket.

FERTIGATION & CHEMIGATION INJECTORS

Growsmart’s line of injectors offers a complete solution designed for the uniform application of chemicals that require dilution and mixing.

- Compatible with existing pivot systems
- Affordable and reliable
- Hydraulically-actuated diaphragm pump operates more reliably than other methods
- Easy to handle and portable
- Pump can be adjusted while turned on or off
- High quality materials

COMPLETE RANGE OF OPTIONS

<table>
<thead>
<tr>
<th>Three platforms</th>
<th>3-phase 380/460 volt standard motors</th>
<th>Affordable and reliable</th>
</tr>
</thead>
</table>

FERTILIZER PUMP PLATFORM

CHEMIGATION PLATFORM WITH 30 GALLON TANK

CHEMIGATION PLATFORM WITH 90 GALLON TANK
SOIL MOISTURE MONITOR

Continuous monitoring can help you make informed decisions to ensure irrigation is applied in the right amount, at the right time.

- Minimizes water stress to plants
- Maximizes potential yield
- Keeps water in the root zone for more efficient irrigation
- Helps reduce groundwater contamination
- Reduces operation costs

Individual probes and sites can be named for quick reference, and linked to the associated pivot field. Soil water trends are illustrated in easy-to-read charts, and are archived for historical purposes.

Probe can be installed at multiple depths to track the water in the full root zone.

ENHANCE WITH FIELDNET

Growsmart add-ons are compatible with FieldNET to offer more control, monitoring and reporting for the specific needs of your operation.

- Turn injectors off and on remotely, and create historical reports.
- Check soil moisture levels and quickly make adjustments.
- Track weather conditions for the specific micro-climate of your field.
FULL VARIABLE RATE CONTROL FOR UNLIMITED FLEXIBILITY

PRECISION VRI
This technology allows you to apply exactly the right amount of water or chemicals over multiple crops, soil types and terrain. Define custom irrigation zones with the easy-to-use mapping software. Individual sprinklers can turn on or off, or pulse at the precise speed to achieve full variable rate application.

BENEFITS
- Reduces over-watering, runoff and leaching
- Decreases fertigation and chemigation costs
- Decreases or eliminates watering in low/flooded areas
- Provides Web-based reporting
- Integrate with FieldNET for complete remote irrigation management
- GPS positioning for accurate control and programming

For details on how FieldNET® and Growsmart® plug-and-play add-ons can enhance your operation, contact your local Zimmatic® by Lindsay dealer or visit www.growsmart.com

THE LINDSAY ADVANTAGE
DURABLE • RUGGED • EASY TO USE • INTEGRATED TECHNOLOGIES • BROADEST LINE OF SOLUTIONS

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