Installation Procedures & Best Practices

Tank Monitor

Above and Underground

Arm and Spiral Floats

OTODATA®

IMPORTANT

Please Advise Otodata Support Upon Installation Of Large Dials

To ensure accurate readings remote mapping and settings are required.

BLANK DIAL UNDER ALUMINUM LID (4 SCREW)

HALL EFFECT DIAL UNDER PLASTIC LID (2 SCREW)

Note: Hall Effect dials require a Bobtail style lead (ACHESGRN)
Recognizable by its green clip.

It is critical that upon installation you advise Otodata Support by phone or RFS (Request For Service) in order to identify the **Tank Monitor Serial Number** to which the accessory is connected.

Please have the following information on hand:

Tank monitor serial number

Accessory description

(514) 673-0244 | 1 (844) 763-3344

support@otodata.ca

Installation Procedure

TM6030
Tank Monitor

Nee-Vo.com

▶ Google Play   🍎 App Store

IMPORTANT ⓘ <u>It is critical in all installations to ensure monitors' antenna is positioned vertically.</u> **This will achieve optimal signal strength, ensuring that you receive data in a timely manner and prolong the battery life of the monitor.**

NOTES ❶ When monitoring multiple tanks that are connected (2x420s, 3x420s etc.), it is important to connect the monitor to the tank that's showing the <u>lowest</u> level. If they're equal, you should monitor the tank with the regulator. **❷** Make sure gauge is screwed on and fastened properly. Ensure that the gauge is clean and free of dirt and debris. **❸** Underground tanks may require right angle (90°) leads.

Do not pressure wash

WARNING This monitor has been tested and certified safe for use in Class 1, Division 2, Groups C & D T3 hazardous locations. Changes or modifications to the unit must only be performed by an authorized technician. For outdoor use only. Explosion Hazard - Batteries must only be changed in an area free of ignitable concentrations. Do not open when an explosive atmosphere is present. Potential electrostatic charging hazard - wipe only with a damp cloth.

BATTERY REPLACEMENT Use ONLY the following Otodata replaceable battery packs: **3-ER26500M/W, 10.8Vdc/8.5Ah** or **GO249-LF, 7.2Vdc/8.5Ah** or **50TT-ER26500-0201-HPC, 7.2Vdc/8.5Ah**. Battery replacement is to be done ONLY when an explosive atmosphere is not present. This device provides non-incendive circuits to cable sensor assembly. Part Number: **HE-LEAD-CIRC-6** or **HE-LEAD-CIRC-6-RA**.

Monitor Specifications

Propane, fuel, gases, water, chemicals, temperature and more. A tank monitor to suit your corporate needs.

Input

Remote Ready Hall Effect Module, I^{2}C, 4-20mAdc, 0-5 VDC, Temperature

Reporting & Outputs

Reporting	Tank level (5% variation)
	Low battery
	High/Excessive draw
	Fill Detection
	Temperature
Data Interface	API
	Email (to supplier and/or consumer)
	Raw data
	Online dashboard
	Client mobile app
Automated Testing	Network status
	Lead sensor status
	Battery status

Electrical Specifications

Battery Pack	Hybrid LTC 7.2 VDC

Radio Specifications

Technologies	4G, LTE CAT1, CATM, NB IOT, 3G, SPRS
	Bluetooth

Environmental Specifications

Operating & storage temp. range	-40˚C to 60˚C	-22˚F to 140˚F
Relative humidity range	0 - 100%	
Enclosure rating	IP66	

Certifications

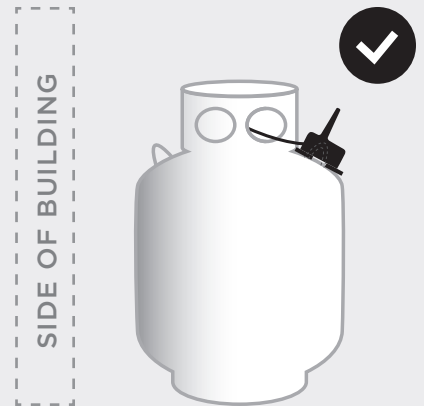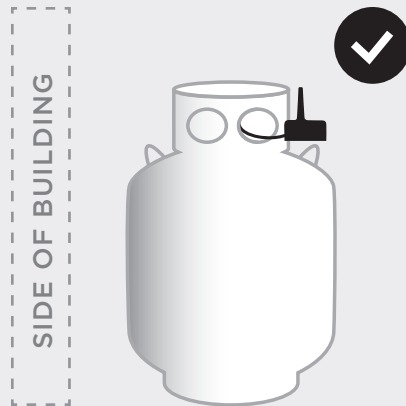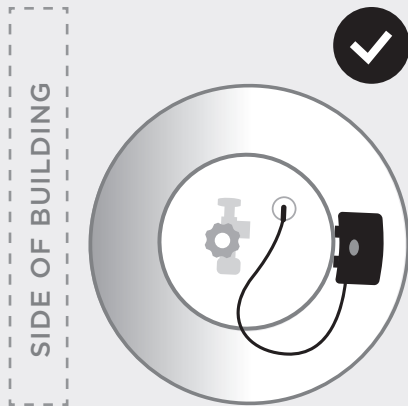|	
Monitors are UL certified for use in hazardous locations	Approved for Class 1, Div. 1, Groups C&D T3 Class 1, Div. 2, Groups C&D T3 ISED, FCC

Dimensions

Height	14 cm	5.5 in
Width	14 cm	5.5 in
Depth	9.5 cm	3.5 in

Option

GPS (mobile tank)

Optimal position

Not optimal. May impact performance.
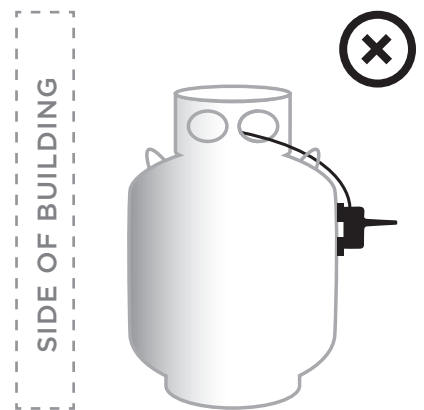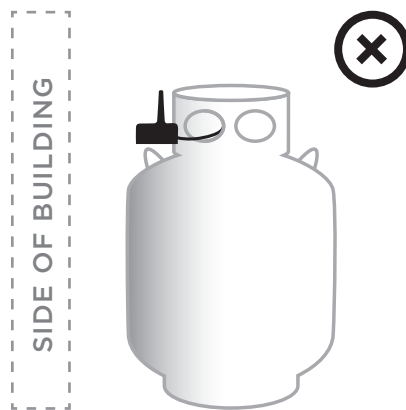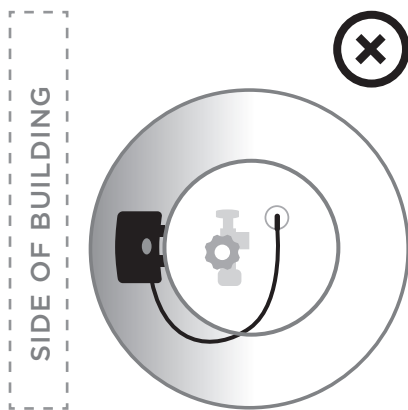
Installation Procedure

Vertical Tanks

✓ Position away from walls

✓ Position as vertically as possible

a) Use the supplied cable tie to secure the unit to the collar or mag-mount it on the shoulder near the collar (You may also opt to strap the unit to a lifting hook);

b) For optimal signal strength, please ensure the antenna is positioned vertically;

c) Slide the remote sensor into the tank's remote ready dial until it snaps into place ensuring that the dial is clean;

d) Ensure the lead wire snaps in properly;

e) Installation is now complete.
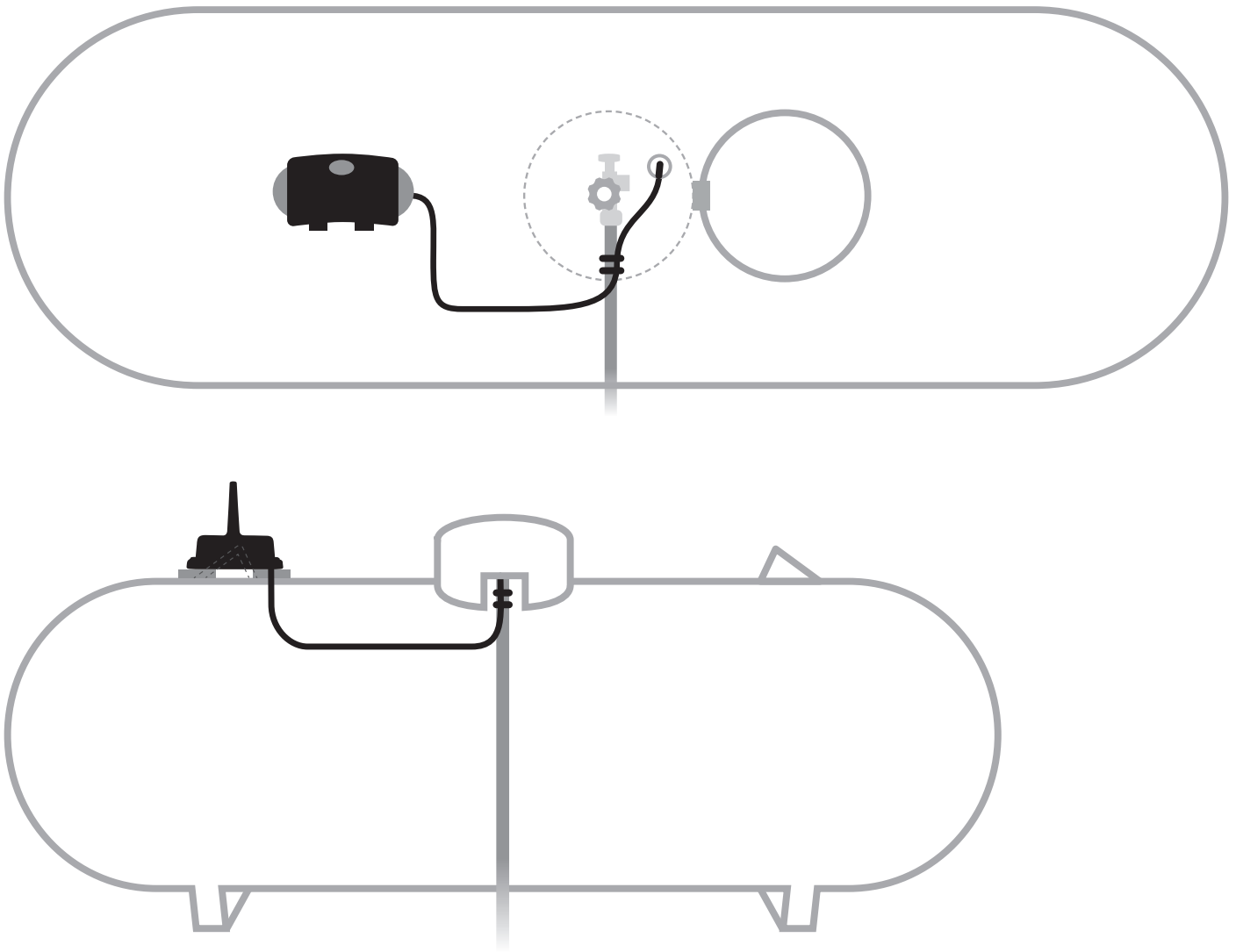
Installation Procedure
Horizontal Tanks

✔ Protect your investment

To prevent lid cuts, lead wire must be fastened to feed-line.

a) Mount the propane monitor magnetically on top of the tank, ensuring that the remote sensor lead wire can sufficiently reach the tank's gauge (You may also opt to strap the unit to a lifting hook);

b) For optimal signal strength, please ensure the antenna is positioned vertically;

c) Slide the remote sensor into the tank's remote ready dial until it snaps into place ensuring that the dial is clean;

d) Use a cable tie to secure the lead to the feed line and ensure that the lid can freely swing open and closed without obstructing or damaging the lead wire;

e) Installation is now complete.

ACCMMK
Face Mount Magnetic Kit
For metal well

ACWMB1
Pit Mount Bracket
For plastic or metal well

BRACKET0.5X6
Single Bracket
For plastic or metal well
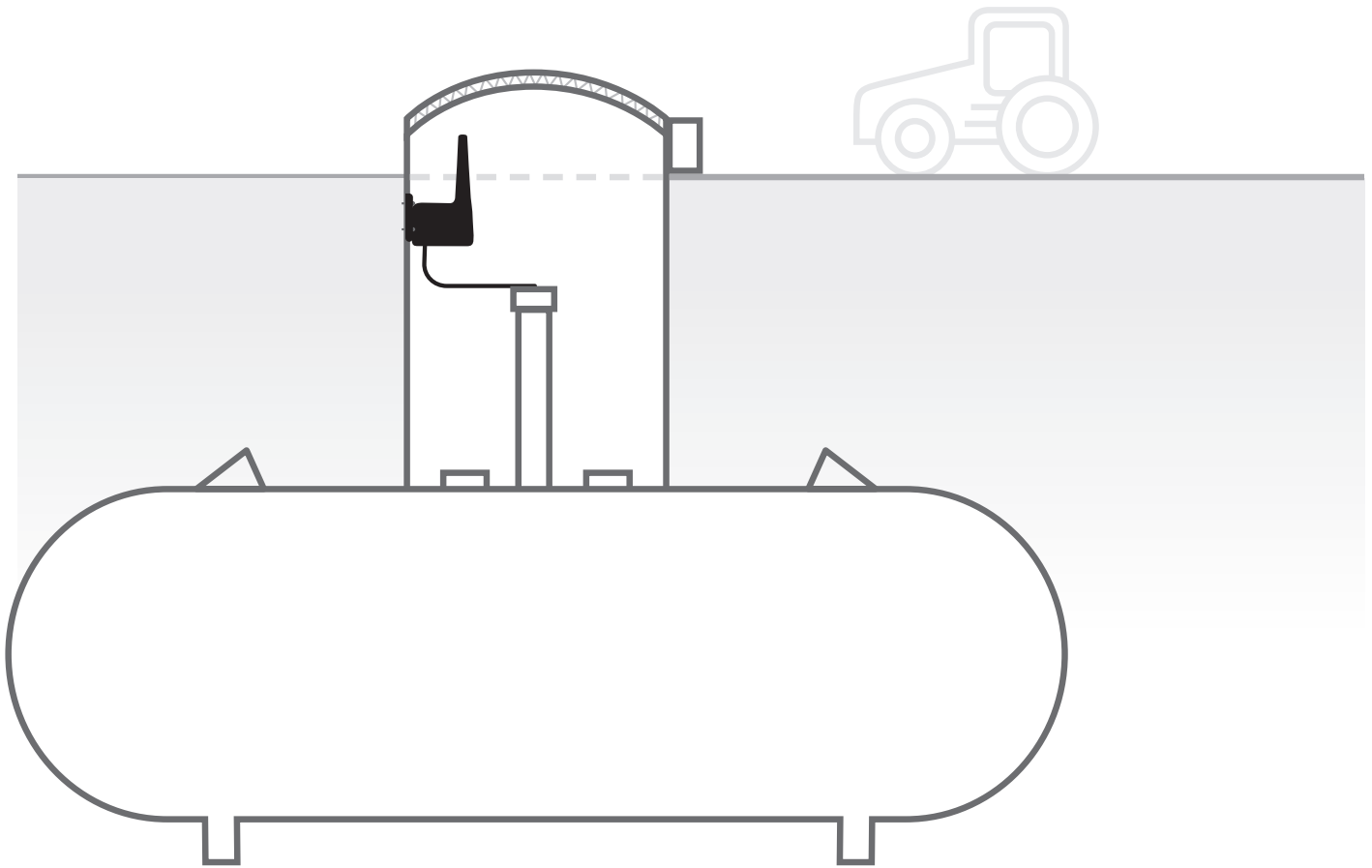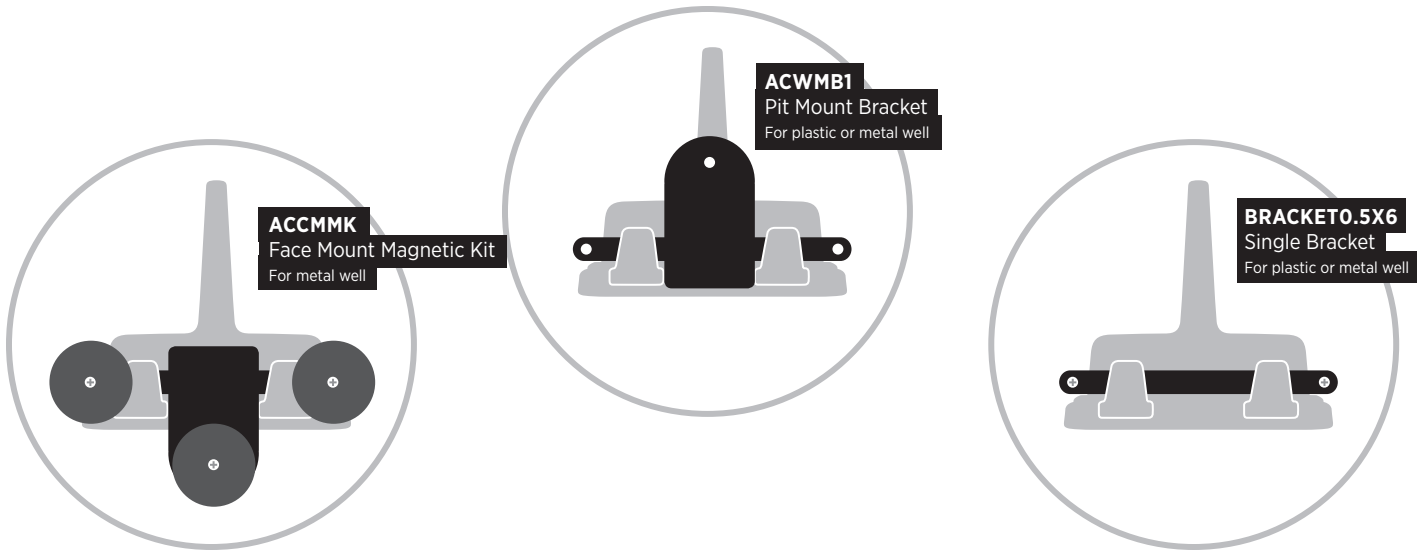
Installation Procedure

Underground Tanks

a) Should be plastic lid.
Metal lids will obstruct signal.

b) Mount as high as possible in the pit.

c) Right angle lead required.

Installation Procedure

Arm and Spiral Floats

Example 1
Arm or **Spiral Float**

Example 2
Arm Float

Example 3
Spiral Float

PUMP

RISER
HEIGHT

(A)

(B)

(★)

A **Intrinsic Safety Zone Sphere**
Extends 5 feet in all directions
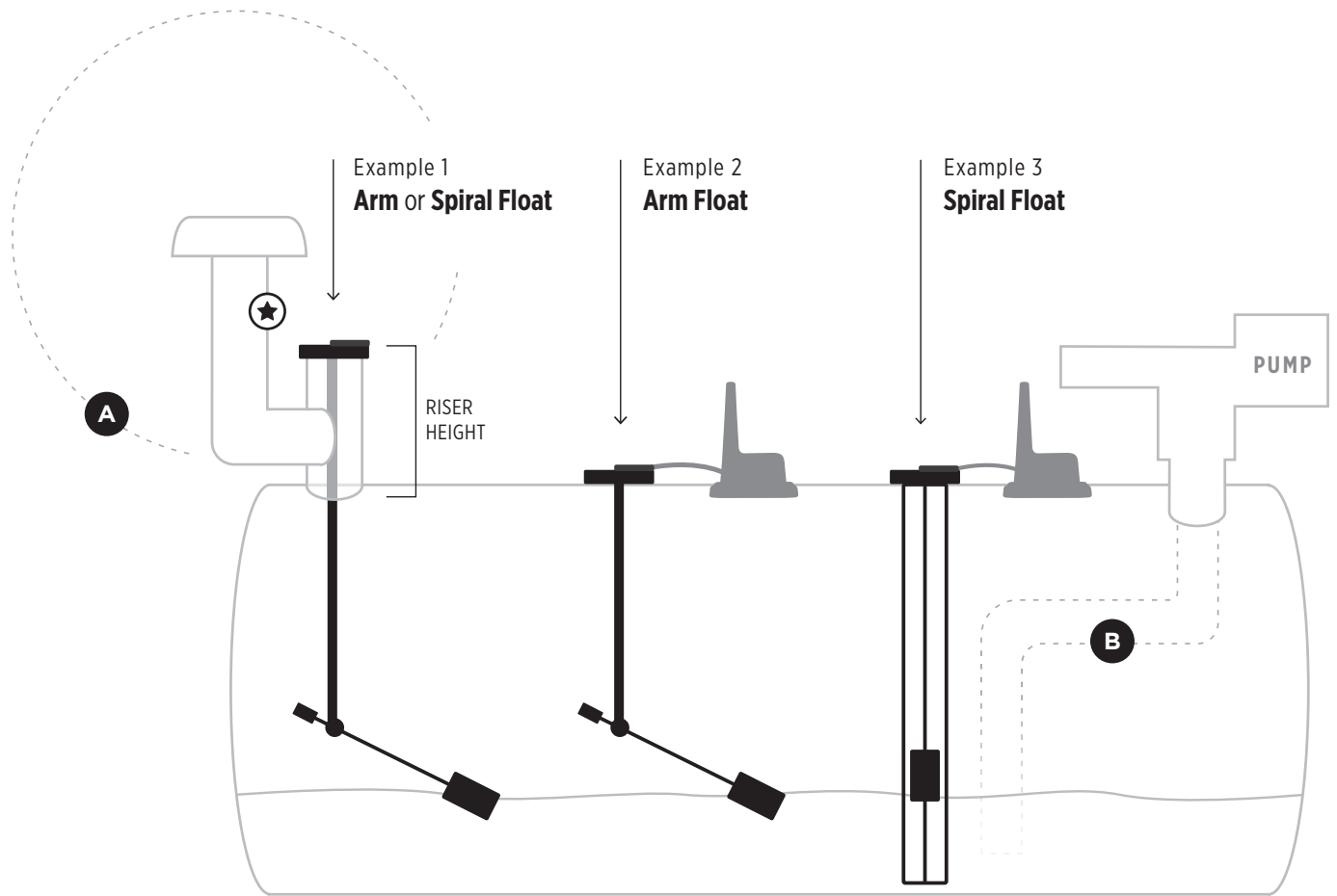from top of venting pipe.
Monitors must clear this area.

B **Obstructions May Cause
Read Problems**
Walls, piping, fuel line, in-tank
braces...etc. may interfere
with arm float. Spiral float is
an acceptable solution.

(★) **T-Vent Not Legal Everywhere**
Verify local regulations.

Important
It is critical in all installations
to ensure monitors' antenna is
positioned vertically.

a) This will achieve optimal signal
    strength, ensuring that you
    receive the data in a timely
    manner and

b) Prolong the battery life of
    the monitor, saving time and
    money in the long run.

Installation Procedure
a) Mount the monitor magnetically
    on top of the tank;

b) Install float in tank;

c) Clip remote ready sensor to dial
    ensuring it snaps in securely;
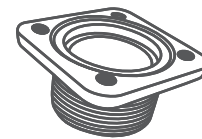
d) Installation complete.

To Order Floats
Floats are made to order.
We require:

a) Inner diameter of tank

b) Riser height (if applicable)

Notes
Standard Spiral Float is threaded
1.5″ NPT

Arm Float not
threaded. Requires
4-bolt adaptor
(1 ½″ or 2″).

Plug & Play
Save precious time and money.
Plug our monitors in and walk
away! No magnet swipe. No
programming. Shipped active.

Support

Local 514-673-0244
Toll-free 1-844-763-3344
support@otodatatankmonitors.com

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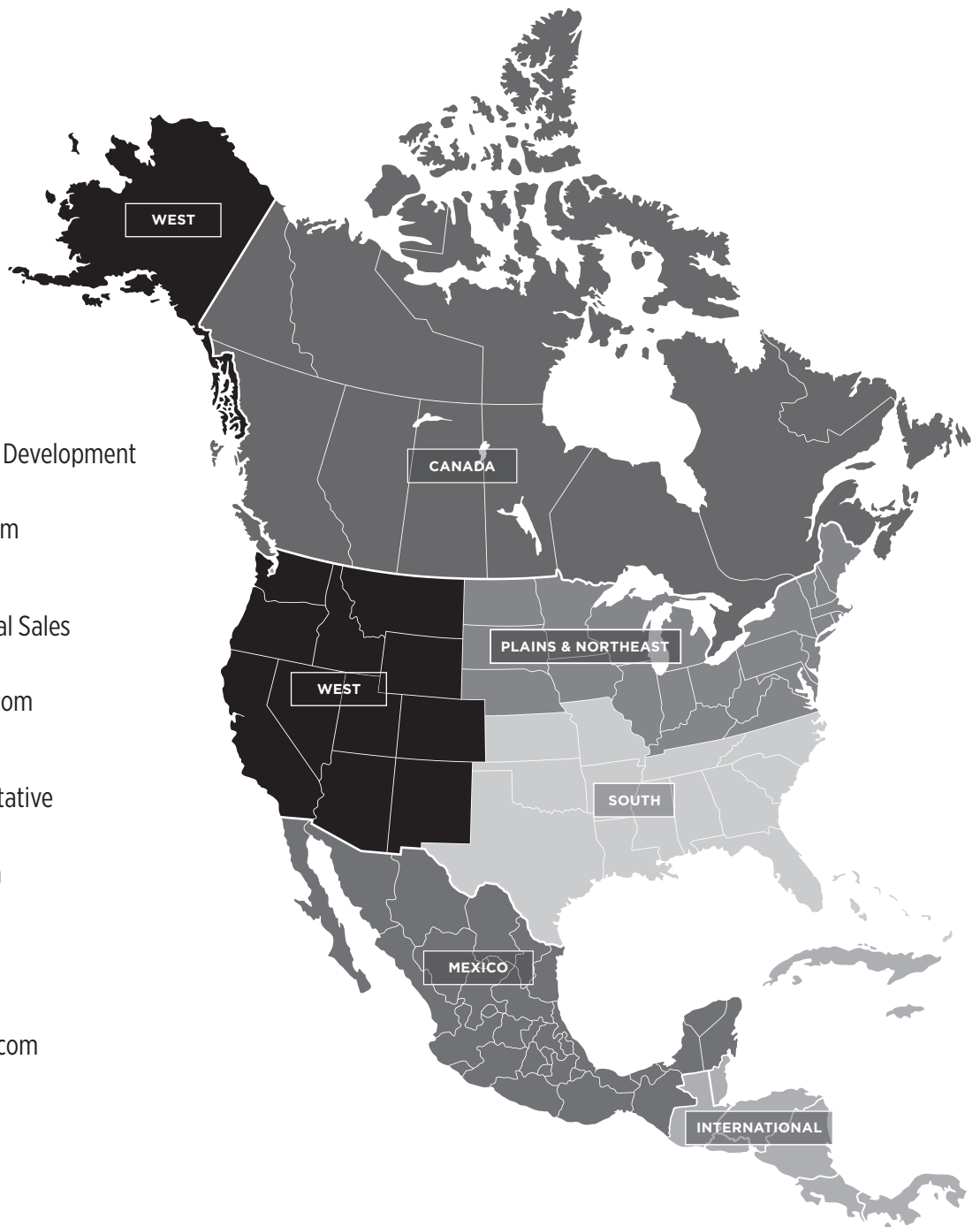ddodd@otodatatankmonitors.com

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WEST

CANADA

PLAINS & NORTHEAST

WEST

SOUTH

MEXICO

INTERNATIONAL

OTODATA®

Your Branded App Is Here!

Let your clients view the level of their tanks anywhere, anytime.

With Nee-Vo your clients get accurate, real-time readings of all their tanks instantly on their smartphone.*

Nee-Vo app offered free to all Otodata tank monitor customers.

We brand it for you!
Nee-Vo
The App
Your logo. Your colors.

With the Nee-Vo App Your Customers Can

✔ Track tank levels in real time

✔ Customize level alerts

✔ Contact you at the press of a button

✔ Request a refill

✔ Consult usage history

App Store | **Google Play**

* The Nee-Vo app requires the installation of the Otodata tank monitor to function.

Free Customization, In-App Marketing, and Support with Otodata's new app, "Nee-Vo".

Contact us today and get *your* Free Branded App

Find out more at **otodata**tankmonitors.com

1-844-763-3344 | 514-673-0244

marketing@otodatatankmonitors.com

OTODATA®

The Otodata Portal

INVENTORY MANAGEMENT SYSTEM

Maximize efficiency. Organize data, create custom routes, and receive notifications.

The Otodata Portal is offered free to all Otodata tank monitor customers. No minimum amount of tank monitors required.

Key characteristics of the Otodata Portal

- ✔ Easily manage customer information
- ✔ Create custom routes
- ✔ View current inventory levels and sort by priority
- ✔ View device statistics for usage history
- ✔ Pin point your tank monitors on a map
- ✔ Set four customizable notifications for each tank monitor: low, critical-low, fill and rapid draw detection.
- ✔ Easily export data to spreadsheet for analysis (CSV)
- ✔ Send notifications to customers
- ✔ Free data import into existing software
- ✔ User-friendly interface and free training available

Easily manage your tank monitors with our *free* web-based inventory management system.

With the Otodata Portal you can increase route efficiencies and reduce overall delivery costs by as much as 30%!

Find out more at **otodata**tankmonitors.com

1-844-763-3344 | 514-673-0244
marketing@otodatatankmonitors.com

IMPORTANT

Please take a moment to carefully read the installation instructions included with your monitors.

ABOVE-GROUND TANKS

Do not install monitors under lids.

UNDERGROUND TANKS

Plastic lid suggested. Metal lids will obstruct signal.

Reading installation instructions will ensure maximum monitoring performance on all your tanks and installations.