

DrainNet

TECHNOLOGIES



G5 GREASEwatch® IMA/IMD Interceptor Monitoring Alarm Interceptor Monitoring Device Oil, Grease and Solids Remote Level Monitoring System OWNER'S MANUAL

(Version 2.0)

Description

The G5 **GREASEwatch**® Interceptor Monitoring Alarm/Device is a unique remote tank level monitor and alarm system that assists in managing F.O.G. (Fats, Oils & Grease) & sediment levels inside Grease Interceptors. The system is comprised of 3 components: the battery operated G5 Tank Unit which is mounted inside the grease interceptor which detects oil, grease and solids levels and communicates wirelessly to the G5 Gateway (control panel) mounted on a wall inside or outside of the FSE (Food Service Establishment) building in the proximity of the grease interceptor and the G5 Tank Alarm, which is mounted on wall the Facility Manager's office or inside the FSE.

Components and Operation

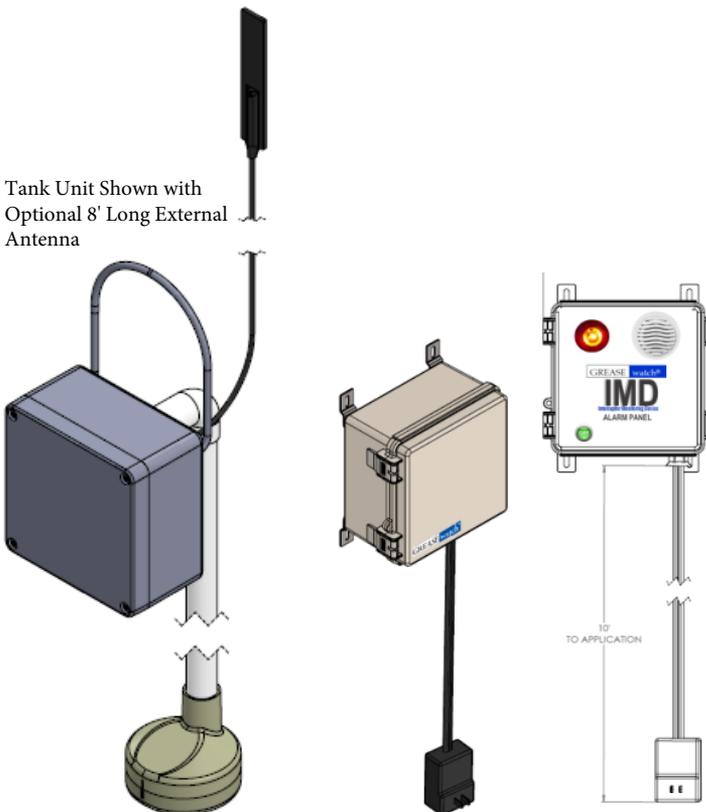
G5 GREASEwatch® Interceptor Monitoring Device is remote tank monitoring system. It is supplied with:

- 1) G5 Tank Unit which is a NEMA 4 control box with riser mounting bracket, internal radio, 3.9v lithium battery, internal antenna (optional 8' external antenna) & external ultrasonic sensor
- 2) G5 Gateway Panel which is a control box with wall mount bracket, internal radio, internal cell modem with internal antennas and external 110v plug
- 3) G5 Alarm Panel which is a control panel with wall mount bracket, internal radio with internal antenna, equipped with audible & visual alarms and external 110v plug

1

2

3



The G5 Tank Unit:

- A) Control box mounts inside the interceptor extension collar (riser) with provided mounting bracket and mounting bolts.
- B) The sensor is attached to the control box with ¾" PVC pipe supplied by installer.
- C) The control box has an internal antenna with optional external antenna, which, if needed is attached to the control box and secured into ground surface near the manway cover with 100% clear silicone supplied by installer.

The G5 Gateway:

- A) Typically installed inside the facility building in proximity of Grease or Oil Interceptors
- B) Connects to 110v outlet with supplied power supply

The G5 Alarm Panel

- A) Typically Mounted inside supervisor's or Manager's office or Facility Manager for easy access
- B) Connects to 110v outlet with supplied power supply

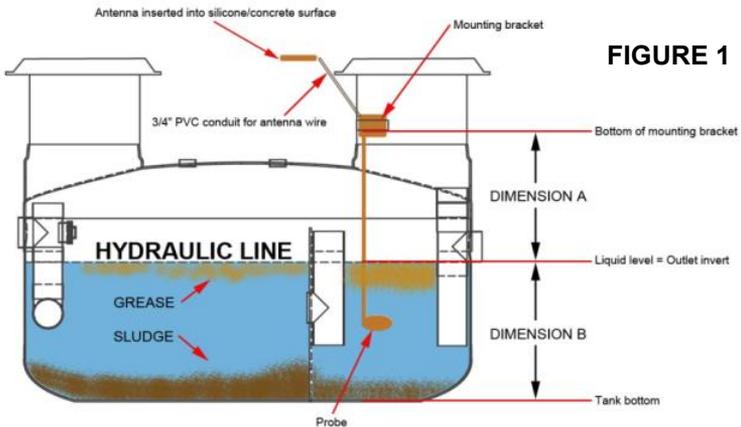
Operation:

Oil/grease/water level as well as bottom solids level and water temperatures are monitored throughout the day. Data is transmitted wirelessly from the G5 Tank Unit to the G5 Gateway which then transmits the data to the website (IMD) and G5 Alarm Panel (IMA)

When a predetermined level of oil, grease, and solids is reached, the alarm panel will both a visual and audible alarm will notify facility manager or FSE employee that it is time to pump out the interceptor.

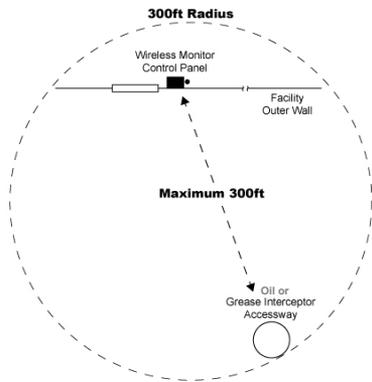
Installation Overview - Components

1. Install control panel on office wall as close to grease or oil interceptor as possible, plug power connector into standard 110V outlet
2. Attach mounting bracket to extension collar with mounting bolts (provided) – drill mounting holes approximately 15" from top of riser
3. Cut $\frac{3}{4}$ " SCH40 PVC pipe to length (A + $\frac{1}{2}$ B) – see Figure 1



4. Thread probe wire through PVC pipe
5. Solvent weld probe to bottom of PVC pipe with primer and PVC cement to make waterproof seal
6. Connect probe wires to control box with waterproof connectors provided
7. Secure pipe to control box with silicone rubber and screw provided
8. Optional 8' External Antenna (only if required) Drill 1" conduit hole for antenna at 45 degree angle from concrete surface to top of mounting bracket area inside extension collar and run conduit through hole
9. Run antenna from mounting bracket area through conduit to surface
10. Create 1/2" wide x 9" long x 1" deep groove in concrete surface for antenna
11. Insert antenna in groove and fill to cover and seal with clear 100% silicone caulk
12. Proceed to calibration procedure

Step-By-Step Installation Instructions



Install G5 Gateway Panel inside facility, keeping it (1) near enough to 110V outlet to plug it in and (2) on or near an outside wall closest to the grease interceptor (3) within a 300ft radius in relation to the grease interceptor.

Identify the location of grease or oil interceptor, remove the manway access cover to reveal the **OUTLET** side of the interceptor.



Install U-bracket level in manway riser with 2 mounting bolts provided. Bolt holes should be drilled into the riser approximately 15" from grade in a position where underwater probe does not have obstructions and the manway cover will not interfere or damage the control box.



Insert control box into the U-bracket as shown. Measure the distance from the $\frac{3}{4}$ " PVC elbow (with 6 wires) to the top of the grease layer/liquid level (Dimension **A**). Then measure the liquid level to the bottom of the tank (Dimension **B**) [See Figure 1]. Tank bottom must have no sediment build-up to insure accurate measurement.



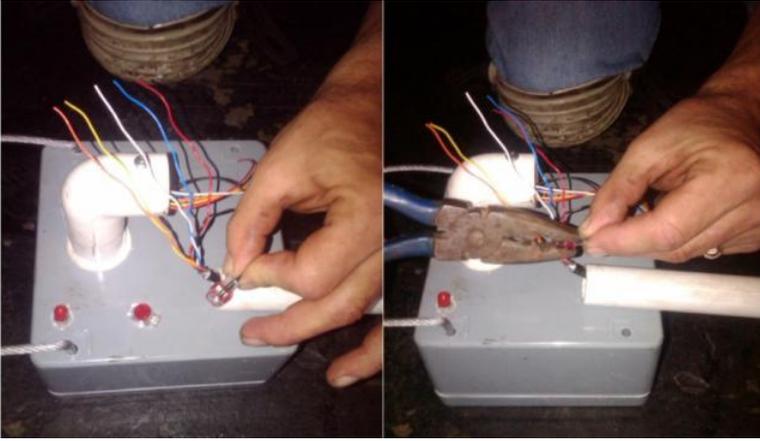
Cut $\frac{3}{4}$ " PVC pipe to length (**A** + $\frac{1}{2}$ **B**) so probe end is positioned in the middle of the interceptor liquid level. Run the black wire from the probe through the PVC pipe. Secure probe to the PVC pipe with PVC cement to create a waterproof seal.



At top end of PVC pipe, cut black wire approximately 6" longer than PVC pipe. Strip black wire shielding to expose wires but do not strip individual wire jacketing.

NOTE:

New Systems use a water tight plug connection. Simply connect.



NOTE: New Systems use a water tight plug - simply connect.
 For older systems, pair the 6 wires from the control box with similar colored wires from probe. Use waterproof connectors to splice and connect both sets of wires. DO NOT STRIP the colored wires – the connectors pierce the colored wire shielding to make adequate connections.

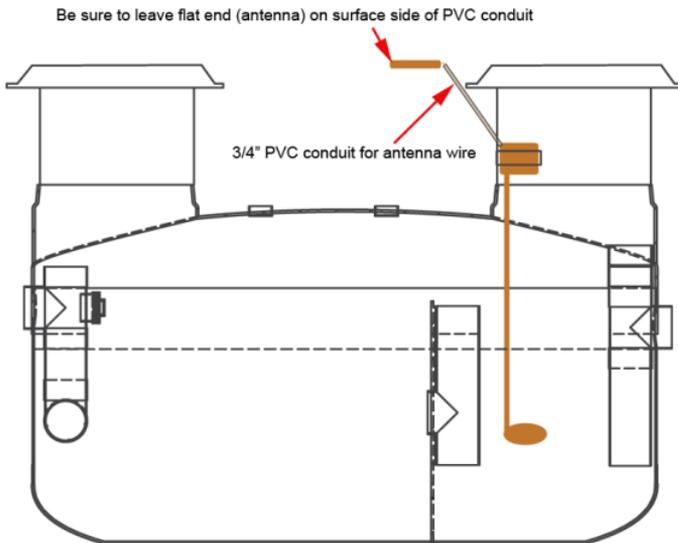


Remove the set screw from the control box elbow and push the connectors down into the $\frac{3}{4}$ " pipe and up into the $\frac{3}{4}$ " elbow. Put a bead of **100% silicone rubber** on the outside end of $\frac{3}{4}$ " pipe and push pipe into the elbow until seated. Rotate the probe end so that when the control box is inserted into the bracket and the probe end is in the tank, the probe end is not facing a wall, pipe or any other obstruction and then install the set screw into the $\frac{3}{4}$ " elbow.

Installing Optional External Antenna Into Surface Material

External Antenna Installation Part 1

Drill a 1" hole at 45 degree angle from surface to area in the riser/extension collar above the mounting bracket and insert 3/4" PVC pipe conduit from hole to surface. Thread antenna wire through PVC pipe with gold female end protruding from pipe nearest control box and mounting bracket. Remove the red cap from the control box cable grip and screw the gold female connector from the antenna onto the gold male connector inside the control box 3-way elbow. Seal the connection with **100% silicone caulk to provide waterproof seal**. Inside the box, disconnect internal 4" antenna ufl from radio and connect external adapter ufl which is now connected to external antenna



Carry out **Signal Connectivity Check** on next page, and then return to this step to complete antenna installation.

Antenna Installation Part 2 (to be done after Signal Connectivity Check)

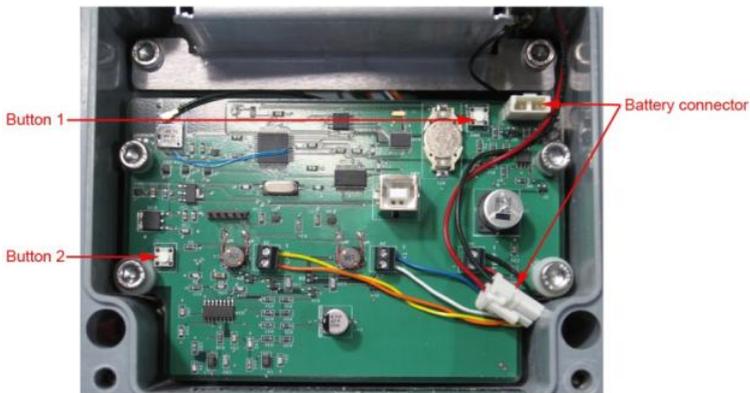
Cut a 9" long X 1" wide X 1" deep groove into the surface (concrete or asphalt) to accommodate the antenna. Place antenna in groove and cover and fill groove completely with **100% silicone rubber** to seal. Antenna should be completely encased in silicone. There must be no antenna wire exposed at the surface which could be damaged by traffic.

Signal Connectivity Check



Remove cover from back of control box with 4 screws. Place probe through U-bracket and into interceptor until control box elbow rests on bracket (this is actually inserting the probe backwards at this point).

Plug battery into connector to initiate liquid level reading and connectivity to Gateway. Replace cover. Return to previous page to complete **Antenna Installation Part 2**. View website to ensure connectivity is established and data is received.



Control box with back cover removed

Calibration Procedure

Log-on to website and enter 2 level measurements

- Static Liquid Level inside tank (from bottom of tank to lowest point of horizontal outlet pipe)
- Static Water Level down to Sensor (when tank is full, place Tank Unit all the way into the bracket and then remove it from the tank. Mark the $\frac{3}{4}$ " PVC pipe at the highest level of water and then measure the distance from that point to the bottom vertical edge of sensor)

WARRANTY

This warranty is provided by Zurn for products sold in USA or Canada. G5 GREASEwatch® monitoring systems are not intended for residential or consumer use and may not be purchased or sold for those applications. Zurn warrants to the original purchaser that all G5 GREASEwatch® monitoring systems purchased from Zurn will be free from defects in materials and workmanship for a period of one (1) year following the date of initial delivery to the purchaser, subject to the terms and conditions below.

Upon registration with Zurn by the owner in the first thirty (30) days of ownership, Zurn further warrants that if the G5 GREASEwatch is installed, operated, and maintained in accordance with Zurn instructions and applicable state/provincial and federal regulatory requirements, the G5 GREASEwatch devices:

1. Will function for a period of one (1) year from date of initial delivery.

All of the warranties herein are subject to the following conditions:

1. The G5 GREASEwatch is installed, operated, and maintained in accordance with the G5 GREASEwatch Installation Instructions and G5 GREASEwatch Owner's Manual.
2. There are no post-installations or repairs of the original G5 GREASEwatch.
3. The original installation has been carried out in the United States or Canada.
4. The original installation was performed following the G5 GREASEwatch installation procedures by a trained contractor with all his/her required registrations, certificates and/or licenses, to complete the installation, repair or alteration in accordance with recognized industry practices and applicable regulatory requirements.
5. The G5 GREASEwatch has been operated and maintained in accordance with regulatory requirements designed to minimize the possibility of structural failures and releases of regulated substances.
6. The G5 GREASEwatch shall not be installed or used in any application other than commercial, industrial, or institutional use.
7. If the G5 GREASEwatch is remanufactured, moved, or removed from the installation for any reason prior to the expiration of this warranty, the structural warranty protections will terminate unless the G5

GREASEwatch is inspected, repaired (as necessary), and re-certified by Zurn and, upon reinstallation, the purchaser continues to satisfy the other conditions of the warranty.

8. The sole warranty for accessories, including but not limited to batteries, is that they are warranted for a period of one (1) year against defects in materials and workmanship from date of shipment.
9. Consumable parts including but not limited to mounting hardware and batteries are excluded from this warranty.
10. Customer assumes the risk of and agrees to indemnify Zurn against and hold Zurn harmless from all liability relating to (i) assessing the suitability for Customer's intended use of the G5 GREASEwatch and of any system design or drawing and (ii) determining the compliance of Customer's use of the G5 GREASEwatch with applicable laws, regulations, codes and standards. For G5 GREASEwatch resold by Customer, Customer retains and accepts full responsibility for all warranty and other claims relating to, or arising from, Customer's G5 GREASEwatch system which includes or incorporate G5 GREASEwatch or components thereof manufactured or supplied by ATS-GREASEwatch, and Customer is solely responsible for any and all representations and warranties regarding the G5 GREASEwatch system made or authorized by Customer. Customer will indemnify Zurn and hold Zurn harmless from any liability, claims, loss, cost or expenses (including reasonable legal fees) attributable to Customer's G5 GREASEwatch system or representations or warranties concerning same.
11. ZURN'S LIABILITY UNDER THIS WARRANTY IS LIMITED, AT ZURNS DISCRETION, TO REPAIR THE DEFECTIVE G5 GREASEWATCH, TO REPLACE G5 GREASEWATCH IN EXCHANGE FOR THE DEFECTIVE UNIT, OR TO REFUND OF THE ORIGINAL PURCHASE PRICE. ZURN IS NOT LIABLE FOR ANY LABOR, SHIPPING, OR OTHER INSTALLATION COSTS, AND SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, PUNITIVE, CONSEQUENTIAL OR OTHER DAMAGES IN CONNECTION WITH SUCH G5 GREASEWATCH INCLUDING, WITHOUT LIMITATION, COSTS, EXPENSES, OR LIABILITIES ASSOCIATED WITH ENVIRONMENTAL CONTAMINATION, FINES OR PENALTIES, FIRES, EXPLOSIONS, OR ANY OTHER CONSEQUENCES ALLEGEDLY ATTRIBUTABLE TO A BREACH OF THE WARRANTY OR DAMAGES UNDER DECEPTIVE TRADE PRACTICES OR SIMILAR CONSUMER PROTECTION ACTS. THE FOREGOING CONSTITUTES ZURN'S EXCLUSIVE OBLIGATION AND ZURN MAKES NO EXPRESS OR IMPLIED REPRESENTATION OR WARRANTY, OR ANY WARRANTY OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSES WHATSOEVER. NO EMPLOYEE OF ZURN OR ANY OTHER PARTY IS AUTHORIZED TO MAKE ANY OTHER REPRESENTATIONS OR WARRANTIES OTHER THAN THE WARRANTY SET FORTH HEREIN.

G5 GREASEwatch IMD Specifications

Materials of Construction:	Corrosion resistant polymers
Tank Unit Control Box:	NEMA 4 rated, waterproof and corrosion resistant
Sensor:	Ultrasonic fully potted transducers
Measurement Accuracy:	+/-1" immersed in minimum 20" of water (10" above and 10" below sensor)
Power Supply:	Tank Unit – 5 year long-life 3.9V Lithium Battery Gateway/Alarm Panel – 110 V AC power converter
Radio Signal:	Radio & Cell
Antennas:	Tuned to Radio or Cell
Signal Range:	Tank Unit Maximum 300 ft. from Tank Unit to Gateway

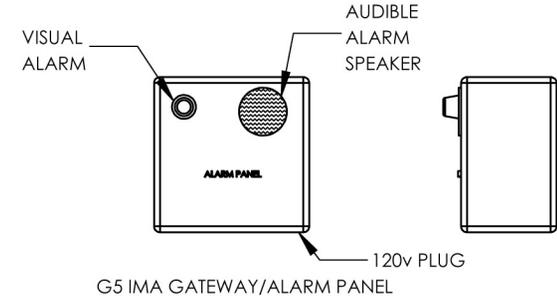
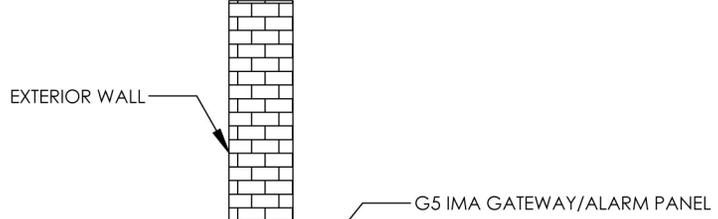
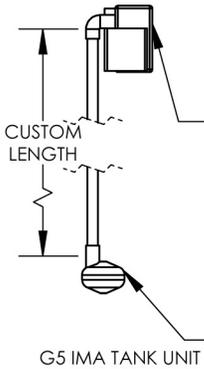
Troubleshooting

In case of sensor or control panel malfunction, complete the following steps:

1. Check Gateway & Alarm panels to confirm that they are both plugged in and have power.
2. Unplug Tank Unit battery for 5 seconds and plug back in to send report gateway and verify either by watching lights on gateway (red/green blink for 20 seconds) or on-line to verify data was sent.
3. Check data on-line to view the following:
 - SIGNAL STRENGTH –
 - range -99:BAD to -55:GOOD
 - Check antenna to confirm that it is not loose or damaged – tighten or replace if necessary
 - BATTERY - 3.9 Volt
 - if less than 3.2 Volt on-line, replace
 - TRANSDUCER LEVEL
 - Instant Grease Level 8-50 Good
 - TEMPERATURE
 - 50 to 150°F Good
 - If above settings are within limits, contact your nearest ATS-GREASEwatch representative to reach Technical Support:
US 1-989-928-1806 or 1-951-591-2800

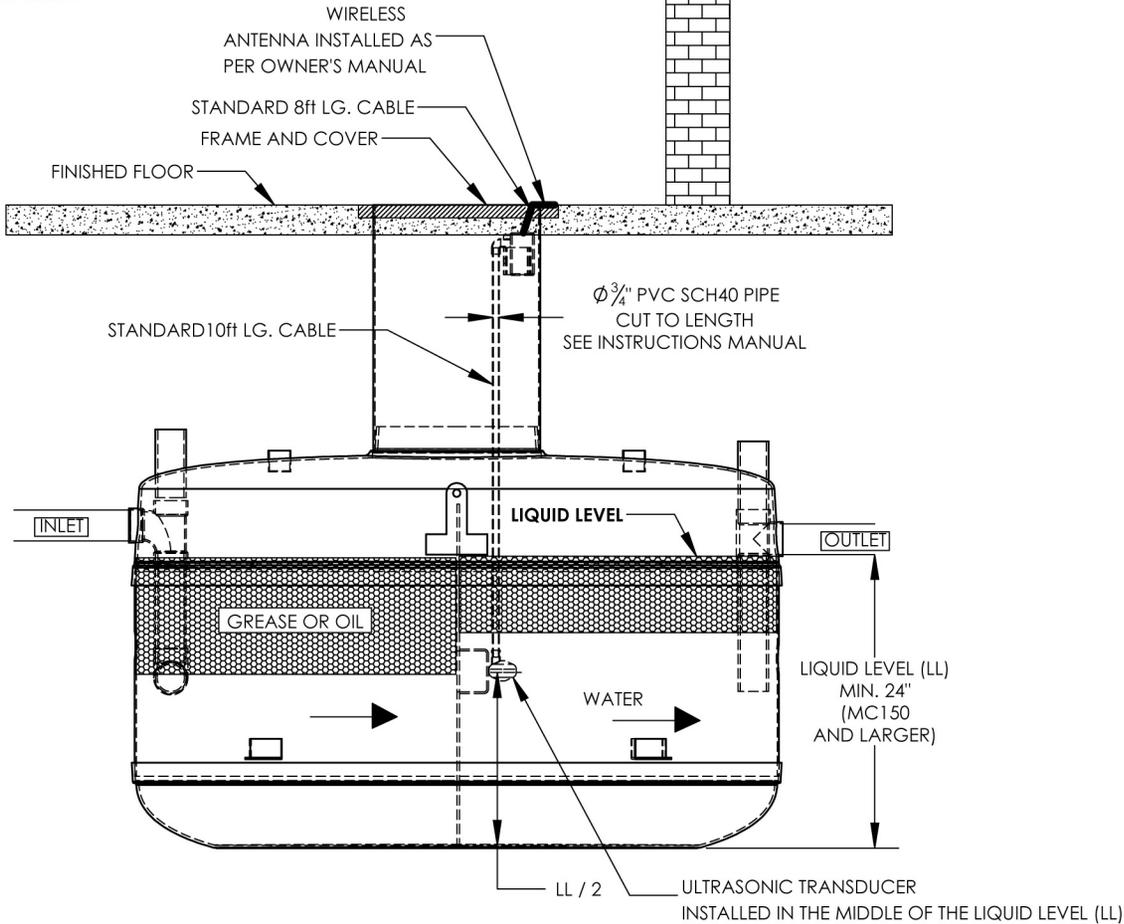
G5 IMA TANK UNIT

G5 GREASEwatch® TANK UNIT INTERCEPTOR MONITORING EQUIPMENT. EACH G5 TANK UNIT TO BE INSTALLED INSIDE OF THE GREASE INTERCEPTOR TO MEASURE THE THICKNESS OF THE TOP GREASE LAYER, BOTTOM SLUDGE LAYER, CHANGE IN LIQUID LEVEL AND WASTEWATER TEMPERATURE INSIDE OF A GREASE INTERCEPTOR. G5 TANK UNIT IS POWERED BY A 3.9v LITHIUM BATTERY AND TRANSMITS DATA TO G5 GATEWAY/ALARM PANEL VIA RADIO FREQUENCY.



G5 IMA GATEWAY/ALARM PANEL

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1. TANKS INSTALLED IN SERIES (EX. GMC 2000(2)) WILL HAVE ALARM INSTALLED IN THE FIRST TANK OUTLET SIDE
2. SINGLE TANKS (WITH BAFFLE) WILL HAVE ALARM INSTALLED ON THE INLET SIDE (BOTH INLET AND OUTLET INSTALLATION IS ALLOWED BUT GT RECOMMENDS INLET)

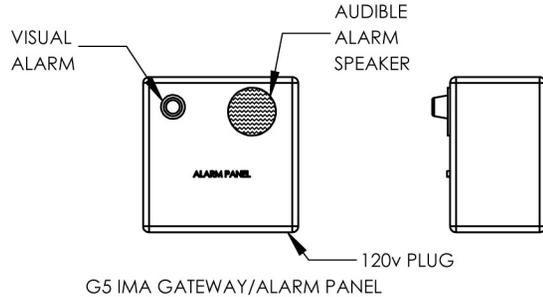
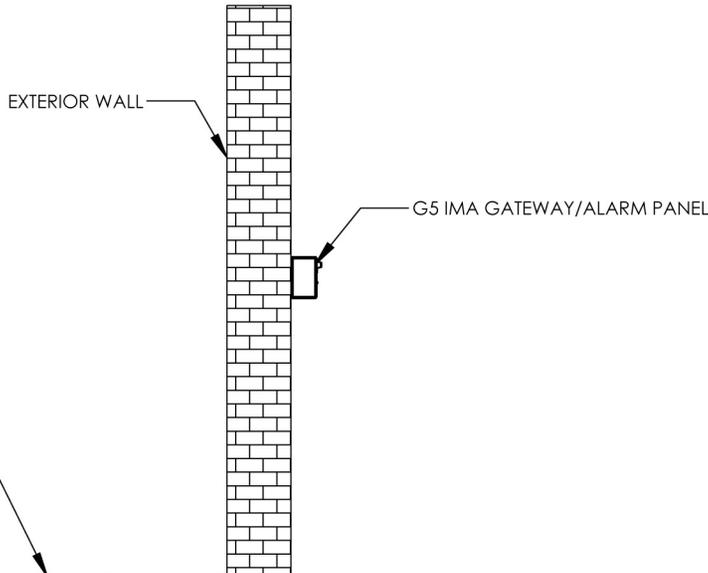
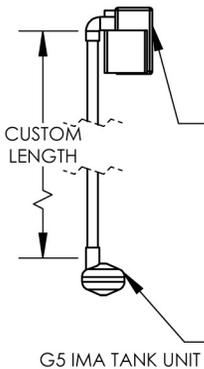
ALARM IS SHOWN TO BE INSTALLED ON OUTLET SIDE OF TANK

Grease Watch 5
SKU: GW-500-4660

GREASE WATCH G5 GATEWAY MONITOR WITH BUILT IN ALARM OUTLET SIDE INSTALLATION		Dra'nNet TECHNOLOGIES	
PROJECT:			
SIZE A	DRAWING NOT TO SCALE	DWG #: 21-5487-S	REV. 1

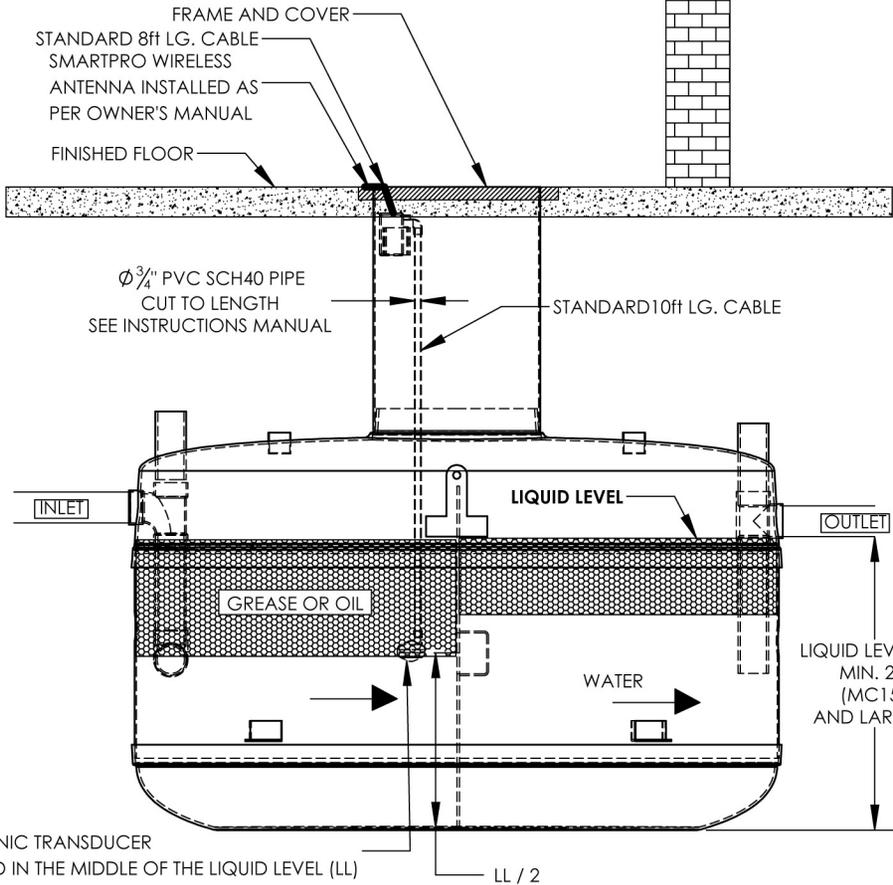
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G5 IMA GATEWAY/ALARM PANEL

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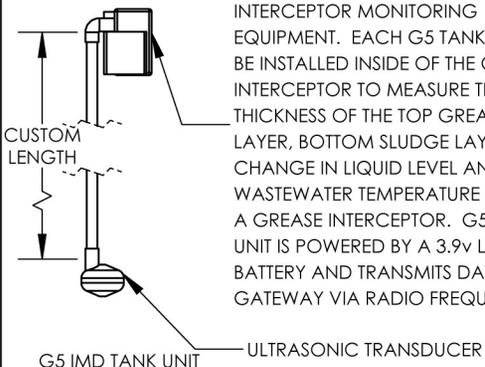
ALARM IS SHOWN TO BE INSTALLED ON INLET SIDE OF TANK

Grease Watch 5
SKU: GW-500-4660
INTERNAL PART #G5-4653

GREASE WATCH G5 GATEWAY MONITOR WITH BUILT IN ALARM INLET SIDE INSTALLATION			
PROJECT:			
SIZE A	DRAWING NOT TO SCALE	DWG #: 21-5530-S	REV. 0

G5 IMD TANK UNIT

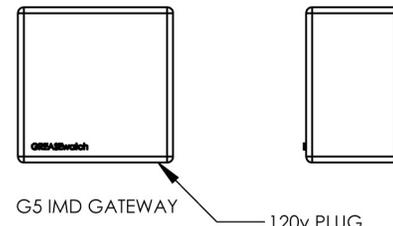
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EXTERIOR WALL

G5 IMD GATEWAY INSTALLED WITHIN RADIO SIGNAL RANGE OF THE IMD TANK UNIT(S)

G5 IMD ALARM PANEL INSTALLED WITHIN RADIO SIGNAL RANGE OF THE IMD GATEWAY



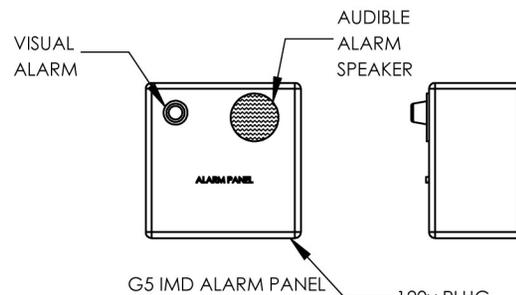
G5 IMD GATEWAY

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STANDARD 8ft LG. CABLE
SMARTPRO WIRELESS ANTENNA INSTALLED AS PER OWNER'S MANUAL
FINISHED FLOOR
FRAME AND COVER

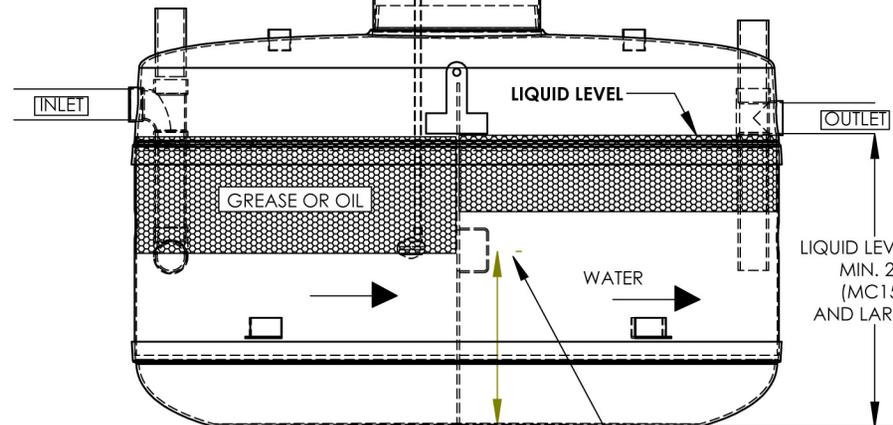
Ø 3/4" PVC SCH40 PIPE CUT TO LENGTH SEE INSTRUCTIONS MANUAL

STANDARD 10ft LG. CABLE



G5 IMD ALARM PANEL

G5 IMD AUDIBLE & VISUAL ALARM PANEL IS TO BE INSTALLED WITHIN RADIO SIGNAL RANGE (APPROX. 300ft LINE OF SIGHT) OF G5 IMD GATEWAY. G5 ALARM PANEL IS POWERED BY 120v POWER SUPPLY (PLUG). WHEN TANK UNITS ARE CLOSE TO ALARM PANEL, A COMBINATION GATEWAY AND ALARM PANEL BOX WILL BE USED.



LIQUID LEVEL (LL) MIN. 24" (MC150 AND LARGER)

LL / 2 ULTRASONIC TRANSDUCER INSTALLED IN THE MIDDLE OF THE LIQUID LEVEL (LL)

1. TANKS INSTALLED IN SERIES (EX. GMC 2000(2)) WILL HAVE ALARM INSTALLED IN THE FIRST TANK OUTLET SIDE
2. SINGLE TANKS (WITH BAFFLE) WILL HAVE ALARM INSTALLED ON THE INLET SIDE (BOTH INLET AND OUTLET INSTALLATION IS ALLOWED BUT GT RECOMMENDS INLET)

ALARM IS SHOWN TO BE INSTALLED ON INLET SIDE OF TANK

Grease Watch 5
SKU: GW-500-4670

GREASE WATCH G5 GATEWAY WITH SEPARATE MONITOR AND SEPARATE ALARM INLET SIDE INSTALLATION

PROJECT:

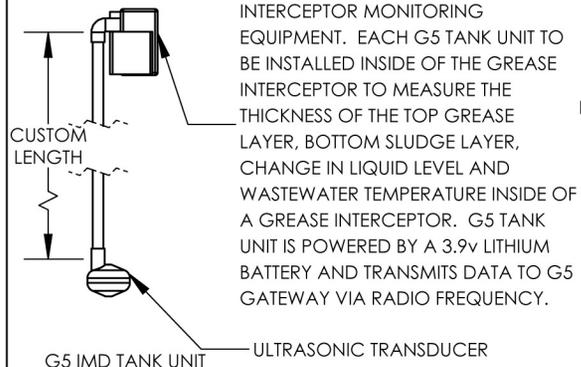
SIZE A DRAWING NOT TO SCALE

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DWG #: 21-5531-S REV. 0

G5 IMD TANK UNIT

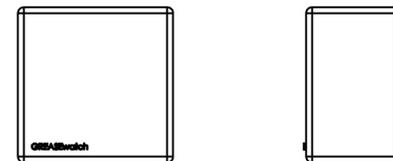
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EXTERIOR WALL

G5 IMD GATEWAY INSTALLED WITHIN RADIO SIGNAL RANGE OF THE IMD TANK UNIT(S)

G5 IMD ALARM PANEL INSTALLED WITHIN RADIO SIGNAL RANGE OF THE IMD GATEWAY

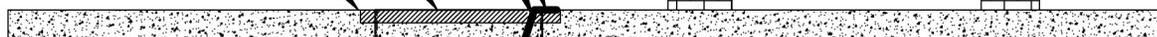


G5 IMD GATEWAY 120v PLUG

G5 IMD GATEWAY

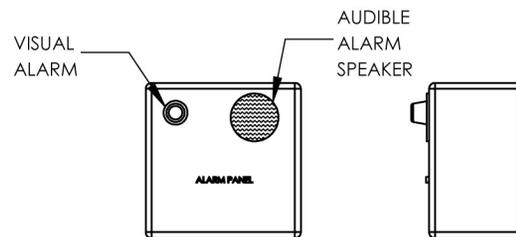
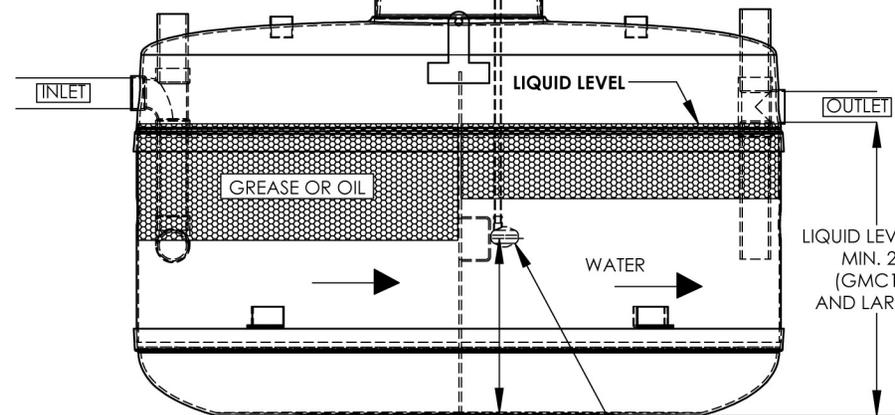
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SMARTPRO WIRELESS ANTENNA INSTALLED AS PER OWNER'S MANUAL
STANDARD 10ft LG. CABLE
FRAME AND COVER
FINISHED FLOOR



Ø 3/4" PVC SCH40 PIPE CUT TO LENGTH SEE INSTRUCTIONS MANUAL

STANDARD 10ft LG. CABLE



G5 IMD ALARM PANEL 120v PLUG

G5 IMD ALARM PANEL

G5 IMD AUDIBLE & VISUAL ALARM PANEL IS TO BE INSTALLED WITHIN RADIO SIGNAL RANGE (APPROX. 300ft LINE OF SIGHT) OF G5 IMD GATEWAY. G5 ALARM PANEL IS POWERED BY 120v POWER SUPPLY (PLUG). WHEN TANK UNITS ARE CLOSE TO ALARM PANEL, A COMBINATION GATEWAY AND ALARM PANEL BOX WILL BE USED.

IN PROCEPTOR GMC OR OMC SEPARATOR MULTI TANK SYSTEMS, THE ALARM IS USUALLY MOUNTED IN THE MANWAY OF THE LAST TANK IN SERIES

ALARM IS SHOWN TO BE INSTALLED ON OUTLET SIDE OF TANK

**Grease Watch 5
SKU: GW-500-4670**

GREASE WATCH G5 GATEWAY WITH SEPARATE MONITOR AND SEPARATE ALARM OUTLET SIDE INSTALLATION

PROJECT:

**DrainNet
TECHNOLOGIES**

SIZE A

DRAWING NOT TO SCALE

DWG #: **21-5488-S**

REV. 0