Informational Handbook

EFFECTIVE FOR YEAR: 2025

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Company Profile

Mission Statement

To provide the highest quality products through our dedicated employees, patented products and manufacturing processes, allowing us to outshine our competitors. Compassion for our customers and employees is the driving force behind our company.

Background: Krueger Sentry Gauge is a company built on old-fashioned values. We are a 15 employee, family owned and operated business. Every employee takes great pride in providing only the finest quality gauges backed by the best service available. **Our gauges and all of the components used on our gauges are produced by us or by other American Manufacturers.** A flexible manufacturing process combined with a variety of material options allows for gauges that will work in a variety of tank sizes and liquid types.

What we offer: We manufacture liquid level gauges primarily for above ground storage tanks. Almost all of the gauges are mechanical. Some of the accessories include very simple electronics and have remote read-out capabilities. We manufacture Level Gauges, Overfill Alert Gauges, and Leak Detection Gauges.

Qualities: An all mechanical design equals low cost, easy installation, very little maintenance, and high durability. Replacement parts are available. So even when the gauge seems to have reached its life, repairs are simple and inexpensive.

Limitations: All the level gauges are top mounted, swing arm style. The gauge gives you a simple reading of eighths and quarters of a tank. We can manufacture gauges anywhere from 6 inches in depth to 12 feet in depth. The gauges are made to order and are not field adjustable.

Warranty: Our gauges are under warranty for one year from the date of purchase. This warranty covers manufacturers defects.

We are not responsible for the following:

Compatibility Issues: It is your responsibility to be certain that your liquid is compatible with the gauge components. We offer a suggested material based on chemical resistance books, but it is the consumer's responsibility to make the final decision.

Sizing/Measurement Issues: We produce our level gauges to your specifications. It is your responsibility to obtain the proper dimensions of the tank so we can manufacture the proper gauges.

Physical Damage: We are not responsible for physical damage to the gauge. Parts are available to make the unit more durable if needed.

No minimum orders *Direct ship orders accepted*

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Chemical Compatibility Guide

***Disclaimer*:** The data presented in this publication is for reference only. It was compiled primarily from outside sources provided by feedstock materials suppliers and resin manufacturers and is offered to our customers as a means of comparing the characteristics of resins and materials used by Krueger Sentry Gauge at the time of this publication. The particular conditions of your use and application of our products are beyond our control. Thus, it is imperative that you test our products in your specific application to determine their ultimate suitability. All information is provided without implied or expressed warranty or guarantee by Krueger Sentry Gauge, or the resin and feedstock manufacturers. Krueger Sentry Gauge assumes no liability with respect to the accuracy or completeness of the information contained herein and none of the information provided constitutes a recommendation or endorsement of any kind by Krueger Sentry Gauge.

Recommended Gauge	Gauge Components	Chemical
Standard	Plastic calibration, HDPE lock nut, Nitrile Gasket, Aluminum Bushing, Galvanized Steel Rods, and HDPE Floats	Gasoline, Hydraulic Oil, Transmission Fluid, Isopropyl
NTF	Plastic calibration, HDPE lock nut, Nitrile Gasket, Aluminum Bushing, Galvanized Steel Rods, and Nitrophyll Floats	Diesel and Mineral Spirits
SSF	Plastic calibration, HDPE lock nut, Nitrile Gasket, Aluminum Bushing, Galvanized Steel Rods, and Stainless Steel Floats	Brake Fluid, Methyl Ethyl Ketone
S1	Plastic calibration, HDPE lock nut, Nitrile Gasket, Aluminum Bushing, Stainless Steel Rods, and HDPE Floats	Citric Acid
S1-GLC	Glass calibration, HDPE lock nut, Nitrile Gasket, Aluminum Bushing, Stainless Steel Rods, and HDPE Floats	Methanol, Windshield Washer Fluid
S2	Plastic calibration, HDPE lock nut, Nitrile Gasket, Aluminum Bushing, Stainless Steel Rods, and Stainless Steel Floats	Acetone, Antifreeze, Ammonia, JP-5, JP-8, Jet Fuel, Kerosene, Nitric Acid, Paint Resin, Crude/Waste Oil
S2-VTN	Plastic calibration, HDPE lock nut, Viton Gasket, Aluminum Bushing, Stainless Steel Rods, and Stainless Steel Floats	Biodiesel/Methyl Oleate
S3	Glass calibration, Aluminum lock nut, Viton Gasket, Stainless Steel Bushing, Stainless Steel Rods, and Stainless Steel Floats	Caustic/ Sodium Hydroxide, Diesel Exhaust Fluid (DEF), E-85, Ethanol, Peroxide, Potassium Hydroxide, Urea, Concentrated Sulfuric Acid
Peek Plastic Gauge	Glass calibration, PVC lock nut, Viton Gasket, PVC Bushing, Peek Plastic Rods, and HDPE Floats	Bleach/Sodium Hypochlorite, Ferric Chloride, Hydrochloric Acid, Phosphoric Acid
Kynar (PVDF) Gauge	Glass calibration, PVC lock nut, Viton Gasket, PVC Bushing, Kynar Rods, and HDPE Floats	Chlorine, Low Percentage Sulfuric Acid

At-A-Glance® Direct Reading Gauge (Type D)

Picture and Component Explanation

The At-A-Glance Type D Liquid Level Gauge is a reliable, swing-arm type tank gauge used for measuring all types of liquid levels. This sight gauge's simple mechanical design promotes durability, minimal upkeep, quick installation, and easy/inexpensive repairs.



Calibration:
Standard: Inner piece and outer piece: Cellulose Acetate
Available upgrade: **Solid Glass Top** or Inner plastic piece can be glass

Red Lock Nut:
Standard: HDPE Plastic
Available upgrade: Aluminum, PVC and Stainless Steel

Bushing: Can be 2" or 1.5" NPT OR .75" NPS
Standard: Aluminum

Float:
Standard: HDPE Plastic
Available upgrade: Nitrophyll or Stainless Steel

Internal Rods:
Standard: Galvanized Steel
Available upgrade: Stainless Steel

Other Materials:
Indicator is HDPE Plastic
Gasket is Duro nitrile Upgrade: Viton

NOTES: Additional materials are available when using some of the other level gauges. The Therma Gauges offers an S3 model which includes stainless steel bushing. The Chemical Gauge offers an All Plastic model which includes a PVC Bushing and PEEK plastic rods.

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Ordering Information

- Custom sizes from 6 inches to 144 inches
- Available in .75” NPS, 1.5” NPT, and 2” NPT opening
- Multiple material options and accessories available
- Cost effective durable design
- Can accommodate pipe risers, vaulted, and double wall tanks
- When ordering specify your size opening and exact tank depth—**every gauge is made custom to fit your tank**

Compatible Chemicals

- Diesel (add NTF)
- Gasoline
- Hydraulic Oil
- Isopropyl
- Methanol (add S1-GLC)
- Windshield Washer Fluid (add S1- GLC)
- Mineral Spirits (add NTF)
- (call for more info)

Part Number Key: Gauge Type—Size Opening—Tank Depth + Extension—Accessories

(Tank Depth = empty to full, Extension = full to threads)

Examples:

D-2-48+6 (2” opening, 48” tank depth, 6” riser)

D-1.5-36-GLC (1.5” opening, 36” tank depth, glass calibration)

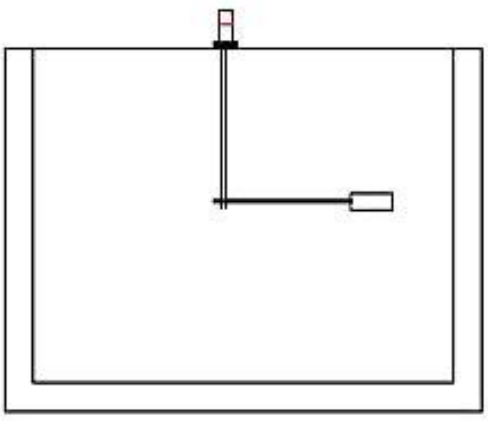
D-2-42+12-S1 (2” opening, 42” tank depth, 12” riser, stainless steel rods)

**For more information visit https://www.ksentry.com/resource-library/documentation-pdfs/

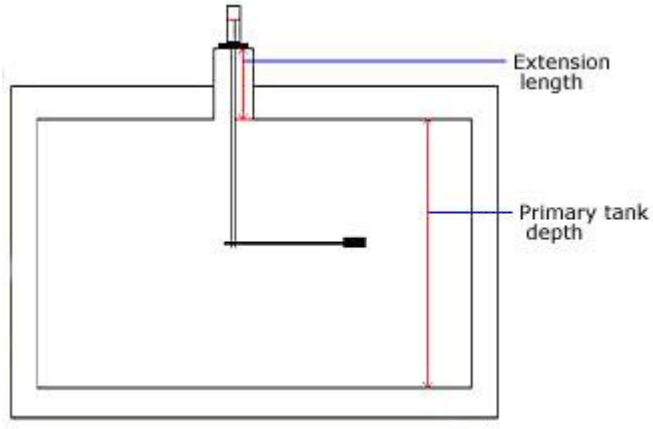
Pricing for Extensions:

Double the extension and add to the primary depth

Example P/N: D-2-48+12 It is **NOT** priced out as a 60” (48+12) It **IS** priced as a 72” (48+12+12)



For standard tanks: No pipe riser, no top double wall.



For Vaulted / Pipe Riser Applications:
Use these instructions when you have a pipe riser or double wall.
Example: There is significant space between where the gauge float reads full, and where the gauge threads in. This is the extension.

Upgrades and Replacement Parts



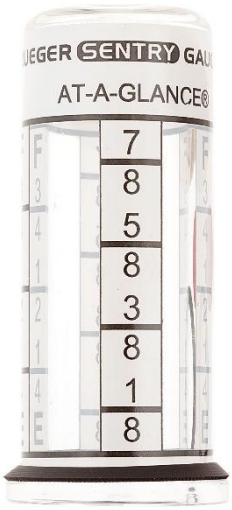
Gauge Guard



Aluminum Lock Nut



Inner Glass Calibration



Solid Glass Calibration

Upgrades / Add-ons

Aluminum Lock Nut- Replace the red lock nut for added durability.
(part # add -ALN)
Gauge Guard- Protective cover that replaces the red locking nut providing protection from physical damage, weathering damage, and helps with passing fire inspections.
(part # add -ALG)
Inner Glass Calibration- The internal piece of the calibration becomes glass. Provides protection from heat, fumes, weathering, and helps with passing fire inspections. (part # add -GLC)
Solid Glass Calibration- Calibration is a solid glass. Increases resistance to a variety of environmental factors including sun damage, heat damage, and weathering. (Requires aluminum lock nut)

Replacement Parts

D-Kit- Replaces all the top components with standard materials.
DG-Kit- Replaces all the top components with standard materials and a glass calibration.
DALN-Kit- Replaces all the top components with standard materials and an aluminum lock nut.
DGALN-Kit- Replaces the top components with a glass calibration and aluminum lock nut.
DSG-KIT- Replaces the top components with a solid glass calibration and aluminum lock nut.



DSG-KIT

Therma Gauge (Type H)

Picture and Component Explanation

The Therma Type H Liquid Level Gauge is a reliable, swing arm type tank gauge used for measuring all types of liquid levels. Its simple mechanical design promotes durability, minimal upkeep, quick installation, and easy/inexpensive repairs. This tank gauge has an easily removable bushing which allows you to thread the bushing into the tank first. This allows you to aim the swing arm precisely where you want it, and eliminates the swing arm spinning inside the tank while you are threading the indicator in.



3 7/8”

4”
with Gauge Guard
(Type “D”: Same
Dimensions)

5/8”

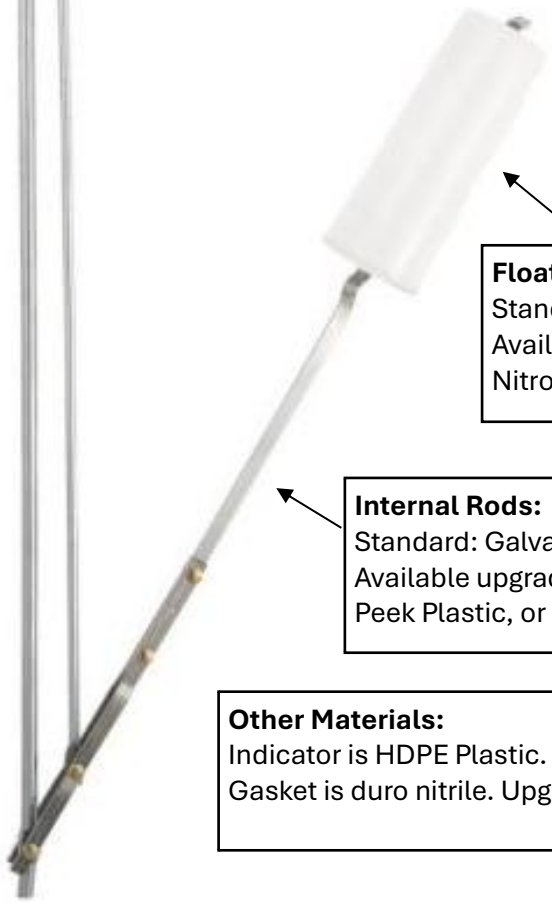
7/8”

Calibration:
Standard: Inner piece and outer piece: Cellulose Acetate
Available upgrade: **Solid Glass Top** or Inner plastic piece can be glass

Red Lock Nut:
Standard: HDPE Plastic
Available upgrade: Aluminum, PVC and

Bushing: Can be 2” or 1.5” NPT
Standard: Aluminum
Available upgrade: Stainless Steel, PVC and

Thermalwell:
Standard: Anodized Aluminum
Available upgrade: Stainless Steel



Float:
Standard: HDPE Plastic
Available upgrade:
Nitrophyll or Stainless Steel

Internal Rods:
Standard: Galvanized Steel
Available upgrade: Stainless Steel, Peek Plastic, or Kynar Plastic

Other Materials:
Indicator is HDPE Plastic.
Gasket is duro nitrile. Upgrade: Viton



Ordering Information

- Custom sizes from 6 inches to 144 inches
- Available in 1.5” and 2” NPT opening and 1 5/16” flanges
- Multiple material options and accessories available
- Cost effective durable design
- Can accommodate pipe risers, vaulted, and double wall tanks
- When ordering specify your size opening and exact tank depth—**every gauge is made custom to fit your tank**

Compatible Chemicals

· Diesel (add NTF)
· Gasoline
· Hydraulic Oil
· Isopropyl
· Methanol (add S1-GLC)
· Windshield Fluid (add S1-GLC)
· Mineral Spirits (add NTF)
· (call for more info)

Part Number Key: Gauge Type—Size Opening—Tank Depth + Extension—Accessories

(Tank Depth = empty to full, Extension = full to threads)

Examples:

H-1.5-36-GLC (1.5” opening, 36” tank depth, glass calibration)

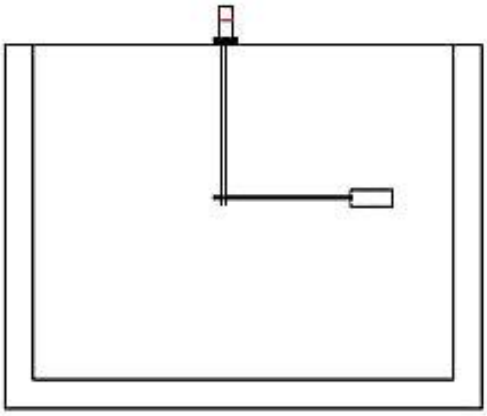
H-2-42+12-S1 (2” opening, 42” tank depth, 12” riser, stainless steel rods)

**For more information visit https://www.ksentry.com/resource-library/documentation-pdfs/

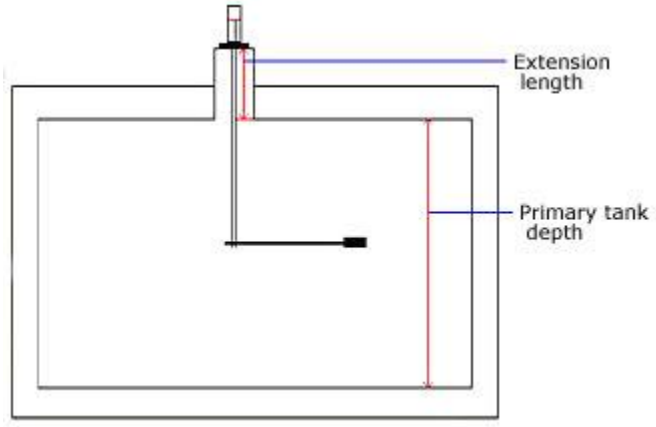
Pricing for Extensions:

Double the extension and add to the primary depth

Example P/N: H-2-48+12 It is **NOT** priced out as a 60” (48+12) It **IS** priced as a 72” (48+12+12)



For standard tanks: No pipe riser, no top double wall.



For Vaulted / Pipe Riser Applications:

Use these instructions when you have a pipe riser or double wall.

Example: There is significant space between where the gauge float reads full, and where the gauge threads in. This is the extension.

Upgrades and Replacement Parts



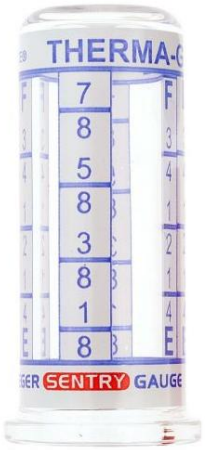
Gauge Guard



Aluminum Lock Nut



Inner Glass Calibration



Solid Glass Calibration

Upgrades / Add-ons

Aluminum Lock Nut- Replace the red lock nut for added durability.
(part # add -ALN)
Gauge Guard- Protective cover that replaces the red locking nut providing protection from physical damage, weathering damage, and helps with passing fire inspections.
(part # add -ALG)
Inner Glass Calibration- The internal piece of the calibration becomes glass. Provides protection from heat, fumes, weathering, and helps with passing fire inspections. (part # add -GLC)
Solid Glass Calibration- Calibration is a solid glass. Increases resistance to a variety of environmental factors including sun damage, heat damage, and weathering. (Requires aluminum lock nut)

Replacement Parts

H-Kit- Replaces all the top components with standard materials.
HG-Kit- Replaces all the top components with standard materials and a glass calibration.
HALN-Kit- Replaces all the top components with standard materials and an aluminum lock nut.
HGALN-Kit- Replaces the top components with a glass calibration and aluminum lock nut.
HSG-KIT- Replaces the top components with a solid glass calibration and aluminum lock nut.



HSG-KIT

All Stainless Steel Therma Gauge (Type H-S3)

Picture and Component Explanation

The Therma Type H Liquid Level Gauge is a reliable, swing arm type tank gauge used for measuring all types of liquid levels. Its simple mechanical design promotes durability, minimal upkeep, quick installation, and easy/inexpensive repairs. This tank gauge has an easily removable bushing which allows you to thread the bushing into the tank first. This allows you to aim the swing arm precisely where you want it, and eliminates the swing arm spinning inside the tank while you are threading the indicator in.



Calibration:
Inner piece is glass and outer piece is cellulose acetate
Upgrade: Solid Glass

Lock Nut: Aluminum or Stainless Steel

Bushing: Can be 2" or 1.5" NPT or 2'' BSPT 316 Stainless Steel

Thermalwell: 316 Stainless Steel



Float: 316 Stainless Steel

Internal Rods: 316 Stainless Steel

Other Materials: Indicator is HDPE Plastic.
Gasket is duro nitrile. Upgrade: Viton

Ordering Information

- Custom sizes from 12 inches to 120 inches
- Available in 1.5” and 2” NPT opening
- Can accommodate pipe risers, vaulted, and double wall tanks
- When ordering specify your size opening and exact tank depth—**every gauge is made custom to fit your tank**
- Useful for chemical applications/Alternative Fuels

Compatible Chemicals

· Caustic
· Sodium Hydroxide
· E-85
· Ethanol
· Peroxide
· Potassium Hydroxide
· DEF
· Sulfuric Acid (Concentrated)

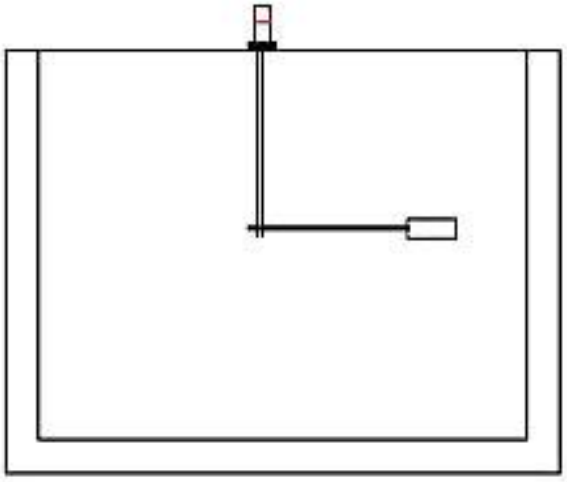
Part Number Key: Gauge Type—Size Opening—Tank Depth + Extension—Accessories

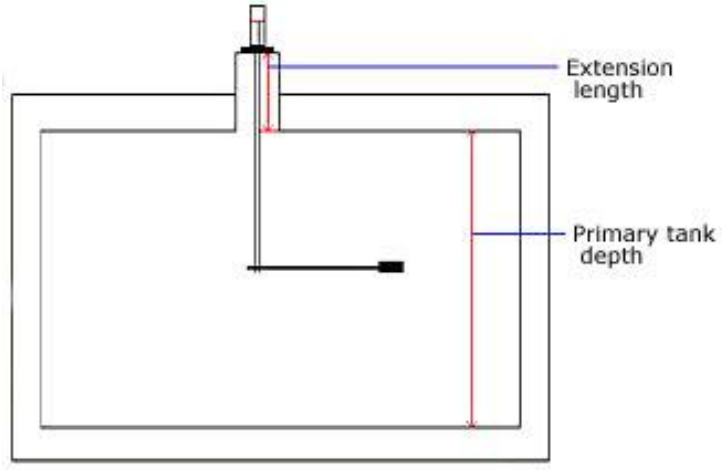
(Tank Depth = empty to full, Extension = full to threads)

Examples:

H-2-42+12-S3 (2” opening, 42” tank depth, 12” riser, stainless steel rods, floats, and bushing)

**For more information visit https://www.ksentry.com/resource-library/documentation-pdfs/





For standard tanks: No pipe riser, no top double wall.

For Vaulted / Pipe Riser Applications:

Use these instructions when you have a pipe riser or double wall.

Example: There is significant space between where the gauge float reads full, and where the gauge threads in. This is the extension.

Plastic Gauge (Type PD or PH)

Picture and Component Explanation

These Liquid Level Gauge are a reliable, swing-arm type tank gauge used for measuring all types of liquid levels. This sight gauge's simple mechanical design promotes durability, minimal upkeep, quick installation, and easy/inexpensive repairs.



Calibration:
Inner piece is glass and outer piece is cellulose acetate
New Solid Glass Top Option now available

Lock Nut and Gauge Guard:
This is one unit made from PVC

Bushing: Can be 1.5" or 2" NPS
Standard: PVC
Standard is NPS (Straight).
If special threads are required please contact us

HDPE Float

Internal Rods:
Standard: Peek Plastic with HDPE rivets
Also available in Kynar rods with HDPE rivets

Other Materials:
Indicator is HDPE Plastic
Gasket is Viton

Ordering Information

- Peek Rods: custom sizes from 17 inches to 110 inches
- Kynar Rods: custom sizes from 17 inches to 76 inches
- Available in 1.5” and 2” NPS opening
- Can accommodate pipe risers, vaulted, and double wall tanks
- Useful for chemical applications
- When ordering specify your size opening and exact tank depth—**every gauge is made custom to fit your tank**

Compatible Chemicals

Peek Rods	Kynar Rods
Bleach	Chlorine
Ferric Chloride	Sulfuric Acid Low %
Hydrochloric Acid	
Phosphoric Acid	

Part Number Key: Gauge Type—Size Opening—Tank Depth + Extension—Accessories

(Tank Depth = empty to full, Extension = full to threads)

Examples:

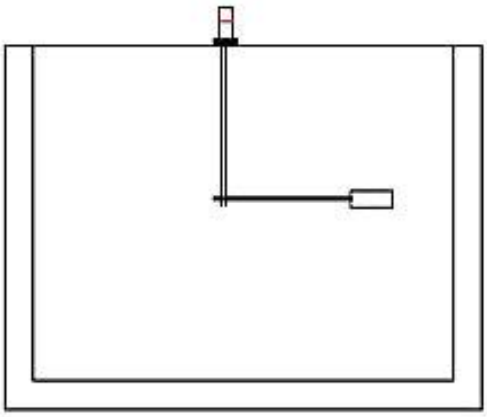
PH-2-48+6 (Type H Plastic, 2” opening, 48” tank depth, 6” riser)

PD-1.5-36 (Type D Plastic, 1.5” opening, 36” tank depth)

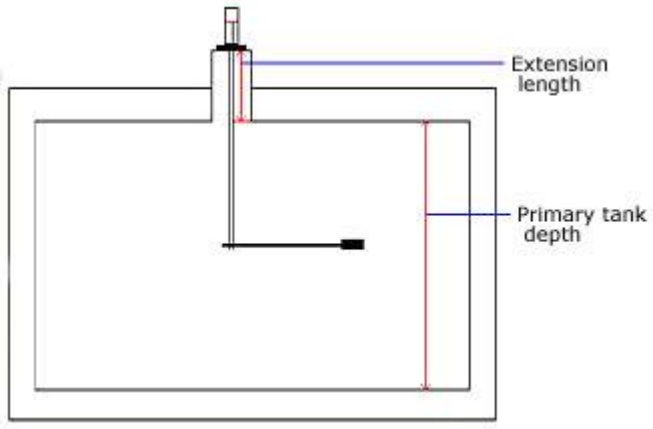
PH-2-64-KYNAR (Type H Plastic, 2” opening, 64” tank depth, Kynar Rods)

Difference between PH and PD

Type PH: designed like the Therma Type H Gauge which allows you to precisely aim your swing arm, allowing you to avoid walls and baffles (see pages 9-12)	**Type PD:** designed like the At-A-Glance® Type D Gauge (see pages 5-8)



For standard tanks: No pipe riser, no top double wall.



For Vaulted / Pipe Riser Applications:
Use these instructions when you have a pipe riser or double wall.
Example: There is significant space between where the gauge float reads full, and where the gauge threads in. This is the extension.

Barrel Gauge (Type B)

Picture and Component Explanation

The Barrel Gauge Type B is a reliable, swing arm type liquid level gauge used for measuring different types of fluids for a variety of applications. Its simple mechanical design promotes durability, minimal upkeep, quick installation, and easy/inexpensive repairs. This liquid level gauge is made specifically for standing barrels and drums. We can accommodate 55-gallon, 30-gallon, and 15-gallon drums, and we offer multiple materials of construction to accommodate nearly any type of liquid suitable for our liquid level gauges.



Calibration:
Standard: Inner piece and outer piece: Cellulose Acetate
Available upgrade: Inner plastic piece can be glass

Red Lock Nut:
Standard: HDPE Plastic
Available upgrade: Aluminum, PVC and Stainless

Bushing: Can be 2", 1.5" NPT or .75"NPS
Standard: Aluminum
Available upgrade: PVC or 316 Stainless Steel (SS only for 2" and 1.5")

Float:
Standard: HDPE Plastic
Available upgrade: Nitrophyll or
316 Stainless Steel (SS only for 2" and 1.5")

Internal Rods:
Galvanized Steel Rods
Available upgrade: 316 Stainless Steel, Kynar Plastic or Peek Plastic

Other Materials:
Indicator is HDPE Plastic
Gasket is duro nitrile. Upgrade: Viton

Ordering Information

- Sizes for 55, 30, or 15 gallon drum tanks
- Available in .75” NPS, 1.5” NPT, and 2” NPT opening
- Has a gallon, liters and 1/8 increment read out
- Multiple material options and accessories available
- When ordering we need to know your size opening and gallon size

Part Number Key: Gauge Type—Gallon Size—Size Opening—Accessories

Examples:

- B-55-.75 (for a 55 gallon tank, 3/4” opening)
- B-55-2-S1-GLC (for a 55 gallon tank, 2” opening, stainless steel rods, glass calibration)
- B-15-2-ALN (for a 15 gallon tank, 2” opening, aluminum lock nut)

**For more information visit https://www.ksentry.com/resource-library/documentation-pdfs/

Compatible Chemicals (some examples for reference only)					
Standard	**Stainless Rods (S1)**	**Stainless Rods/Floats (S2)**	**ALL SS (S3)**	**Peek Rods**	**Kynar Rods**
Diesel (NTF)	Methanol (add GLC)	Acetone	Caustic	Bleach	Chlorine
Gasoline	Citric Acid	Ammonia	Sodium Hydroxide	Ferric Chloride	Sulfuric Acid
Hydraulic Oil		Antifreeze	E-85	Hydrochloric Acid	
Isopropyl		Bio Diesel (add VTN)	Ethanol	Phosphoric Acid	
		Brake Fluid	DEF		
		MEK	Peroxide		

Upgrades and Replacement Parts



Gauge Guard



Aluminum Lock Nut



Inner Glass Calibration

Upgrades / Add-ons

Aluminum Lock Nut- Replace the red lock nut for added durability.
(part # add -ALN)
Gauge Guard- Protective cover that replaces the red locking nut providing protection from physical damage, weathering damage, and helps with passing fire inspections.
(part # add -ALG)
Inner Glass Calibration- The internal piece of the calibration becomes glass. Provides protection from heat, fumes, weathering, and helps with passing fire inspections. (part # add -GLC)

Replacement Parts

Must specify gallon size when ordering

B-Kit- Replaces all the top components with standard materials.

BG-Kit- Replaces all the top components with standard materials and a glass calibration.
BALN-Kit- Replaces all the top components with standard materials and an aluminum lock nut.
BGALN-Kit- Replaces the top components with a glass calibration and aluminum lock nut.

B-KIT



Leak Interstitial Monitor Gauge (Type K)

Picture and Component Explanation

The Type K leak detection gauge is a reliable, vertical type leak monitor engineered to detect leaks in the annular/interstitial space of a double wall above ground containment tank (AST's). Its refined mechanical design promotes durability, minimal upkeep, quick installation and quick, inexpensive repairs.



Calibration:
Standard: Inner piece and outer piece: Cellulose Acetate
Available upgrade: **Solid Glass Top** or Inner plastic piece can be glass

Red Lock Nut:
Standard: HDPE Plastic
Available upgrade: Aluminum, PVC and Stainless

Bushing: Can be .75" NPS, 1.5" or 2" NPT
Standard: Aluminum
Available upgrade: PVC (NPS), Stainless Steel and **2" BSPT**

Thermalwell:
Standard: Anodized Aluminum
Available upgrade: PVC and Stainless Steel

Internal Rods: Aluminum Rods.
1/8" compression union for 43" to 76" gauges
3/16" self-align union for 77" to 170" gauges

Other Materials:
Indicator is HDPE Plastic.
Gasket is duro nitrile. Upgrade: Viton

Float: HDPE Plastic

Ordering Information

- Designed to detect leaks in double wall containment systems, interstitial spaces, and monitoring pipes
- Custom sizes from 6 inches to 170 inches

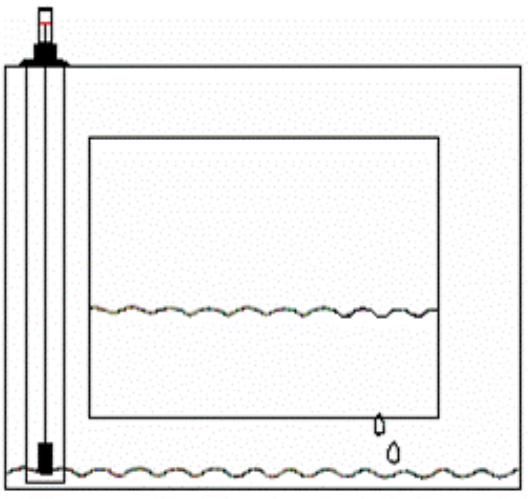
- Available in 1.5” NPT opening for sizes 6” to 76”
- Available in 2” NPT opening for sizes 6” to 170”
- Available in .75” NPS opening for sizes 6” to 76”

- Simple and effective
- Third party testing documents available
- When ordering specify your size opening and exact tank depth—**every gauge is made custom to fit your tank**

Part Number Key: Gauge Type—Size Opening—Tank Depth—Accessories
(Tank depth = bottom of tank to threads)
Examples:
K-1.5-48 (1.5” opening, 48” tank depth)
K-2-96-ALG (2” opening, 96” tank depth, aluminum gauge guard)

**For more information visit https://www.ksentry.com/resource-library/documentation-pdfs/

Example illustration of application:



If you have a monitoring pipe or have a threaded fitting at the top of the interstitial space on a double wall containment tank, this monitor will thread right in. Any liquid seeping into the containment space will cause the float to rise which will provide a visual indication on top of the tank that there is liquid in the interstitial containment area.



Gauge Guard



Inner Glass Calibration



Solid Glass Calibration



Aluminum Lock Nut

Upgrades / Add-ons

Aluminum Lock Nut- Replace the red lock nut for added durability.
(part # add -ALN)
Gauge Guard- Protective cover that replaces the red locking nut providing protection from physical damage, weathering damage, and helps with passing fire inspections.
(part # add -ALG)
Inner Glass Calibration- The internal piece of the calibration becomes glass. Provides protection from heat, fumes, weathering, and helps with passing fire inspections. (part # add -GLC)
Solid Glass Calibration- Calibration is a solid glass. Increases resistance to a variety of environmental factors including sun damage, heat damage, and weathering. (Requires aluminum lock nut)

Replacement Parts

K-Kit- Replaces all the top components with standard materials.
KG-Kit- Replaces all the top components with standard materials and a glass calibration.
KALN-Kit- Replaces all the top components with standard materials and an aluminum lock nut.
KGALN-Kit- Replaces the top components with a glass calibration and aluminum lock nut.
KSG-KIT- Replaces the top components with a solid glass calibration and aluminum lock nut.

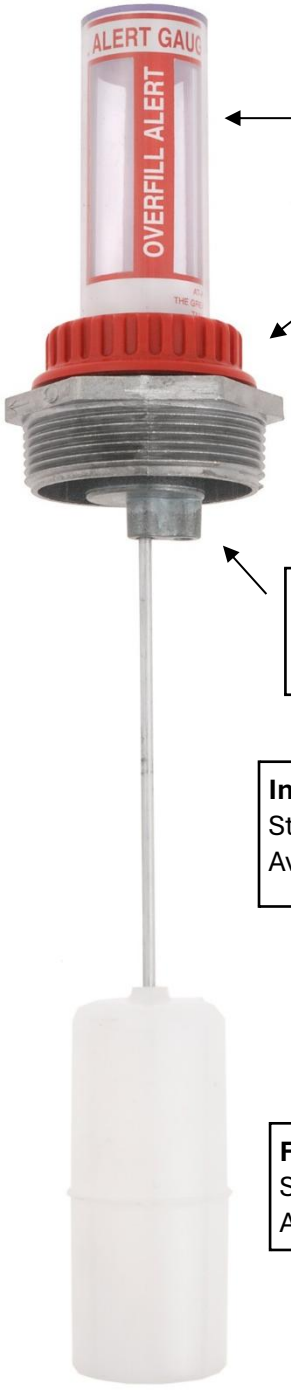
KSG-KIT



Overfill Alert Gauge (Type OF)

Picture and Component Explanation

The Overfill Alert Gauge is a high level visual gauge designed to visually alert you that your AST (tank) is near full. This overfill monitor's simple pop up mechanical design promotes easy installs, maximum durability, and low upfront costs. They are designed to pop up at a specific level (usually 90 percent) and warn you that the tank is almost full. Provides visual overfill warning.



Calibration:
Standard: Inner piece and outer piece: Cellulose Acetate
Available upgrade: **Solid Glass Top** or Inner plastic piece can be glass

Red Lock Nut:
Standard: HDPE
Available upgrade: Aluminum, PVC and Stainless Steel

Bushing: available in 2" or 1.5" NPT or .75" NPS
Standard: Aluminum
Available upgrade: PVC (NPS), Stainless Steel, and **2" BSPT**

Thermalwell:
Standard: Anodized Aluminum
Available upgrade: PVCor Stainless Steel

Internal Rods:
Standard: Aluminum Rods
Available upgrade: Stainless Steel, Peek Plastic or Kynar Plastic

Float:
Standard: HDPE Plastic
Available upgrade: Stainless Steel or Nitrophyll

Other Materials:
Indicator is HDPE Plastic.
Gasket is duro nitrile. Upgrade: Viton

Ordering Information

- Designed to alert when tank is about 90% full
- Custom sizes from 6 inches to 40 inches
- Available in .75” NPS or 1.5” or 2” NPT opening (all PVC bushings are NPS threads)
- Multiple material options and accessories available
- When ordering specify the size opening and exact length needed—every gauge is made custom to fit your tank
- **Length is the point at which you want the level of the tank to read the overfill**

Part Number Key: Gauge Type—Size Opening—Length—Accessories

Examples:

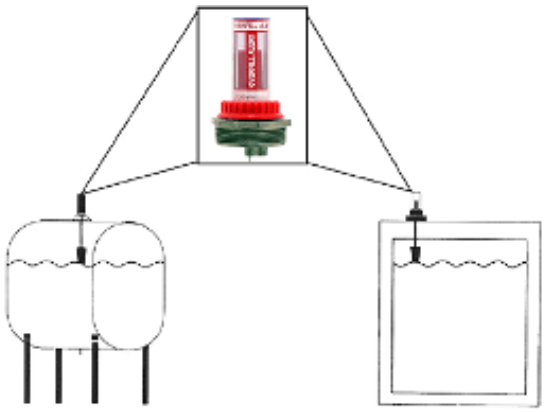
OF-2-10 (2” opening, 10” length)

OF-.75-12-GLC-ALG (3/4” opening, 12” length, glass calibration, aluminum gauge guard)

OF-2-6-S3 (2” opening, 6” length, all stainless steel construction)

**For more information visit https://www.ksentry.com/resource-library/documentation-pdfs/

Example illustration of application:



Overfill Gauge Overfill Prevention Ordering Instructions.

Use these instructions when ordering the Overfill Gauge as an overfill prevention device.

The Length of the overfill gauge shall be the distance from the top of your gauge threads to the **full mark** in your tank. Your **full mark** should be no less than 90% capacity, and no more than 95% capacity. These measurements will vary depending upon each individual tank. It is the customers responsibility to ensure that we receive the proper measurements for correct overfill warning.

Upgrades and Replacement Parts



Gauge Guard



Aluminum Lock Nut



Inner Glass Calibration



Solid Glass Calibration

Upgrades / Add-ons

Aluminum Lock Nut- Replace the red lock nut for added durability.
(part # add -ALN)
Gauge Guard- Protective cover that replaces the red locking nut providing protection from physical damage, weathering damage, and helps with passing fire inspections.
(part # add -ALG)
Inner Glass Calibration- The internal piece of the calibration becomes glass. Provides protection from heat, fumes, weathering, and helps with passing fire inspections. (part # add -GLC)
Solid Glass Calibration- Calibration is a solid glass. Increases resistance to a variety of environmental factors including sun damage, heat damage, and weathering. (Requires aluminum lock nut)

Replacement Parts

OF-Kit- Replaces all the top components with standard materials.
OFG-Kit- Replaces all the top components with standard materials and a glass calibration.
OFALN-Kit- Replaces all the top components with standard materials and an aluminum lock nut.
OFGALN-Kit- Replaces the top components with a glass calibration and aluminum lock nut.
OFSG-KIT- Replaces the top components with a solid glass calibration and aluminum lock nut.

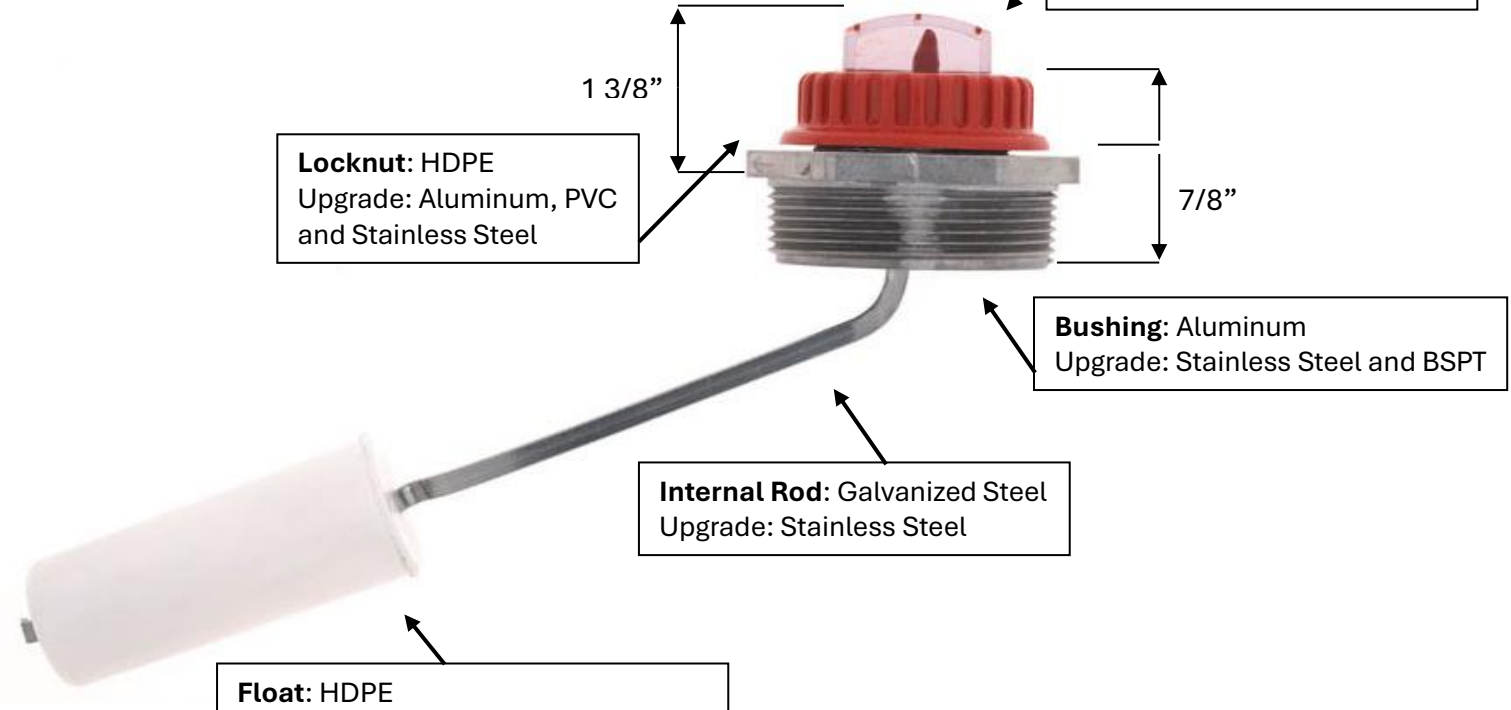


OFSG-KIT

L Gauge (Type L)

Picture and Component Explanation

The Type L gauge is an economical liquid level monitor that is recommended for small tank applications with depths of 6" up to 30". Low profile and must be top mounted.



- Ideal for small tanks
- Reads Half, Full and Empty
- Custom sizes from 6 inches to 30 inches
- Available in 1.3125” 1.5” or 2” NPT opening
- When ordering specify your size opening and exact tank depth—**every gauge is made custom to fit your tank**

GFK Gauge (Type GFK)

Picture and Component Explanation

The GFK gauge is a lower profile level gauge with an indestructible cast aluminum housing.

- Most durable and rugged gauge
- Custom sizes from 8 inches to 48 inches
- Available in 1.3125” 1.5” or 2” NPT opening
- When ordering specify your size opening and exact tank depth—**every gauge is made custom to fit your tank**



Calibration:1/4 increments reading
Standard material: Zinc Alloy

Gasket: Duro Nitrile
Available upgrade: Viton

Bushing: Aluminum

Float: HDPE
Available upgrade: Stainless Steel or Nitrophyll

Rod: Galvanized Steel
Available upgrade: Stainless Steel

Part Number Key: Gauge Type—Size Opening—Tank Depth—Accessories
(Tank depth = bottom of tank to threads)
Examples:
GFK-1.5-36 (1.5” opening, 36” tank depth)
GFK-2-48-S1 (2” opening, 48” tank depth, stainless steel rods)

**For more information visit https://www.ksentry.com/resource-library/documentation-pdfs/

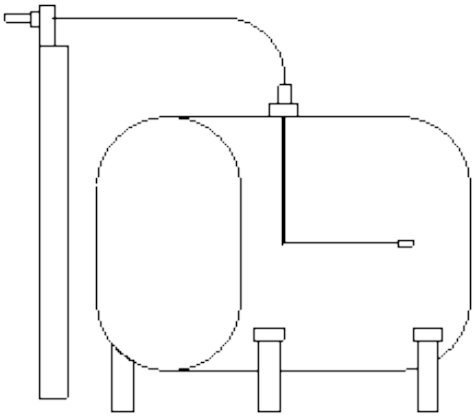
Remote Reading Gauge (Type DU)

Picture and Component Explanation

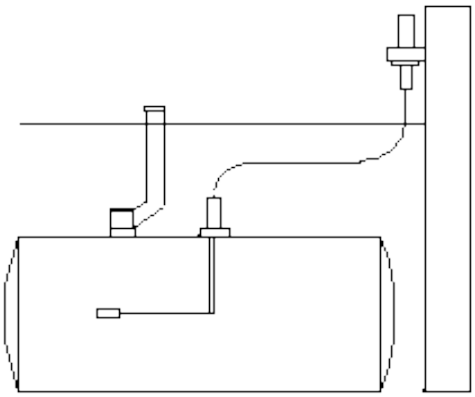
A top-mounted liquid level gauge that can remotely measure the level of storage tanks. Can provide remote level indication up to 12 feet away from the tank. Purely mechanical construction, with no power or batteries required.

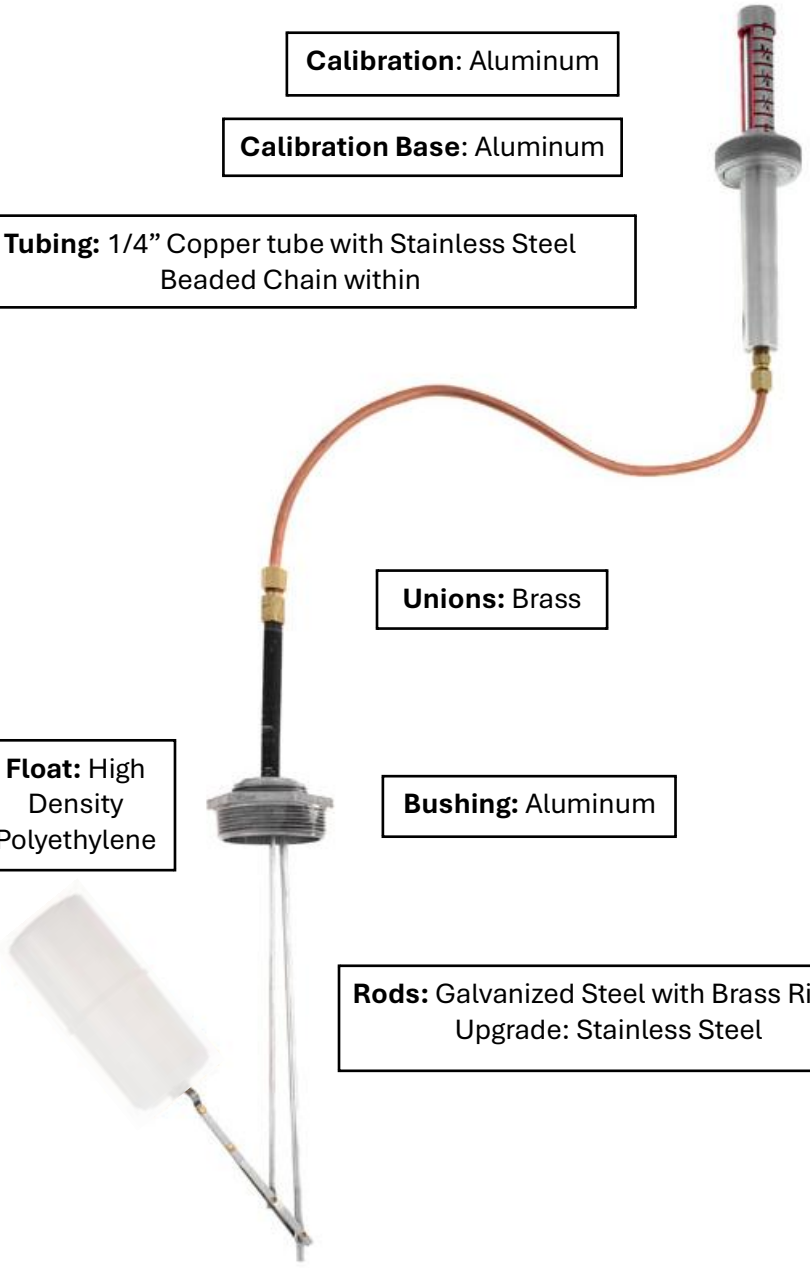
- Monitors tanks from 14 inches to 144 inches in depth.
- Allows for up to 12 feet of remote capability. 12 feet is the maximum.
- All mechanical action, no power required.
- 12 feet of tube and beaded chain are included with the gauge.
- Only available in 2” NPT.

Aboveground Storage Tank



Underground Storage Tank





Calibration: Aluminum

Calibration Base: Aluminum

Tubing: 1/4” Copper tube with Stainless Steel Beaded Chain within

Unions: Brass

Bushing: Aluminum

Float: High Density Polyethylene

Rods: Galvanized Steel with Brass Rivets
Upgrade: Stainless Steel

LED At-A-Glance Remote Display

Picture and Component Explanation

The “LED At-A-Glance®” gauge system is an electronic remote read that accurately and reliably measures the fuel level in your fuel tank. It will transmit and display the level information to a wired LED display located in a convenient location on your premises.

Operation:

- The Display/Receiver displays the liquid level on a row of LED’s where each LED represents approximately a 1/8 of the tank’s capacity
- The row of LED’s is green from 3/8 of a tank to full
- When the level goes to 1/4 tank the highest LED illuminated will be yellow
- At 1/8 of a tank the highest LED illuminated will be red

Gauge not included



Features:

- Quick and Easy Install
- Suitable for both inside and outside tanks
- Connects using a 3 wire cable
- Yellow LED will illuminate if any fault to the system occurs
- Powered by a 9V battery—not included
- Display can be located anywhere within 100ft of the Transmitter. Comes with 25 feet of remote wire, additional may be added.
- Hi **or** Lo Level adjustable 90-100 DB alarms triggered by a magnetic switch (can also be disabled)
- Automatic sleep mode to conserve battery life.

KSG SmartGauge Transmitter

Picture and Component Explanation

The KSG SmartGauge Transmitter accessory system converts a Krueger mechanical gauge into a digital output, 4-20mA, industry standard signal. By combining the reliability of Krueger mechanical gauges with electronic signal output, the SmartGauge Transmitter provides accurate, real-time level data for process monitoring, automation, and system control applications.

Features:

- Compatible with Krueger Sentry Gauge Types: D, H, B, OF, and K.
- Quick and easy installation.
- Suitable for both indoor and outdoor applications.
- Connects using a 3-wire cable.
- Requires 9-12 VDC power source. (not included)
- Outputs a standard 4–20 mA signal that can be interfaced with electronic equipment such as cellular monitoring devices, computers, PLCs, or building management systems.



Notes

- Any device or software capable of accepting a 4–20 mA analog input signal may be used with the transmitter.
- Common examples include Data Acquisition (DAQ) devices, Analog-to-Digital Converter (ADC) systems, and Programmable Logic Controllers (PLCs).
- Krueger currently does not partner with or recommend any specific brands or third-party equipment for signal monitoring or data collection.
- The transmitter is designed as an open-interface device, allowing the end user to connect it to monitoring or control systems of their choice.

Alarm Accessories

Picture and Component Explanation



Direct Alarm



Remote Alarm

All At-A-Glance® Alarms

- Compatible with Krueger Sentry Gauges: Type D, Type H, Type B, Type PH, Type PD, Type OF, and Type K.
- Powered by a 9 volt Lithium Battery and a test switch allows you to test the battery before each use. (Battery not included)
- Magnetic Switch triggers a 110 DB Alarm and can be reset while in alarm mode.
- Weather resistant, semi waterproof (cannot be submerged)
- Third party tested and approved to be Intrinsically Safe.

At-A-Glance® Remote Mount Alarm

- Remotely mounted for remote access.
- Comes with 25' of cable including connectors
- Can be ordered with a maximum of 100' of cable

At-A-Glance® Alarm with Dry Contacts

- Dry contacts can handle up to 2 amps of resistive or inductive load.
- The active light is a red blinking led. When light is blinking, it means the contacts have been triggered and the unit must be reset.
- The Test/Reset switch can be used to check the battery. Click it left or right. If the red light comes on the battery is working. The Test/Reset switch is also used to reset the alarm. When active, the red light will be blinking. Toggle the switch left or right to reset the alarm back to ready.

  - Open contacts are standard– Has one set of normally open contacts
  - Capable of flipping a switch but can't power or run other devices (can turn on something that is off but can't power it)
  - Output— 0 Amps– Has no power output
  - Input— up to 2 Amps—Can switch a 2 Amp load (Up to 120v, but not recommended)
  - Handle up to 120 volts—Can switch 120v load but only through an auxiliary relay
  - One alarm per device
  - External device can be anything– AC or DC external powered
  - The dry contacts can be broken by a ground, 9 to 12 volts, if it is not over 2 Amps, normally open

**When ordering an alarm that is going to be used with a gauge guard you need to order special because the rings are made to fit the gauge, so your part numbers are:
DAlarm-GG for Direct Mount Alarm
RAlarm-GG for Remote Mount Alarm
No price change.

UL Certification & Upgrade Package Options

Type D gauges ONLY

Material Options and Limitations:

- All Bushing sizes available: .75’’, 1.5’’, and 2’’
- Standard Direct Reading Gauge-Type D-Rods are galvanized steel, floats are HDPE plastic, bushing is aluminum, calibration top is plastic.
- Stainless Level One-Type D-S1- Rods become stainless.

**The Stainless Level Two – S2 and All Plastic – PD materials are not UL approved*

Add-Ons and Limitations:

- Inner glass
- Aluminum Lock Nut
- Nitrophyll Float

**Solid Glass, PVC nut, PVG and ALG guards are not UL approved*

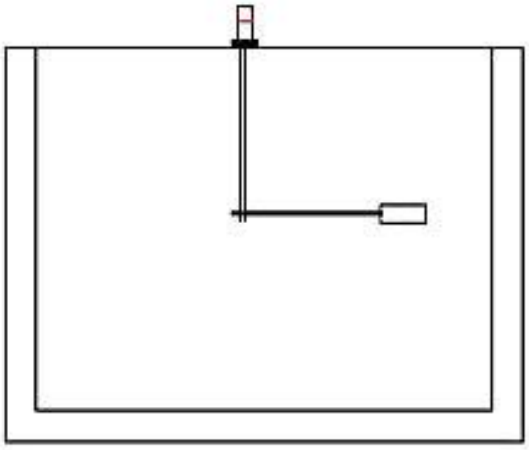
Additional Gauge Ordering Instructions and Help

For standard tanks:

No pipe riser, no top double wall.
Definition: There is less than one inch of space between where the gauge float reads full, and where the gauge threads into the tank.

Part Number:
Gauge Type—Size Opening—Depth of Tank—Accessories (optional)
Example: D—2—48—GLC

All Gauge measurements are in inches. Depth of tank should be the inside diameter/height of the tank in inches.



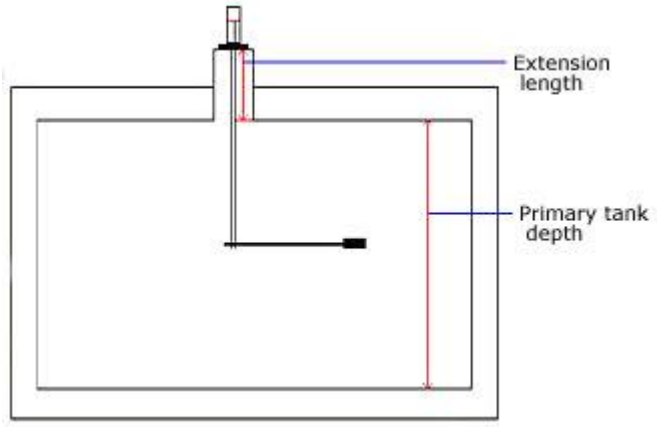
For Vaulted / Pipe Riser Applications

Use these instructions when you have a pipe riser or double wall.
Definition: There is significant space between where the gauge float reads full, and where the gauge threads in. This is the extension.

Part Number:
Gauge Type—Size Opening—Depth of Tank—Extension—Accessories
Example: D—2—48 + 12—GLC

All Gauge measurements are in inches. Depth of tank should be the inside diameter/height of the tank in inches.

Pricing for Extensions: Double the extension and add to the primary depth
Example P/N: D-2-48+12
It is NOT priced out as a 60" (48+12)

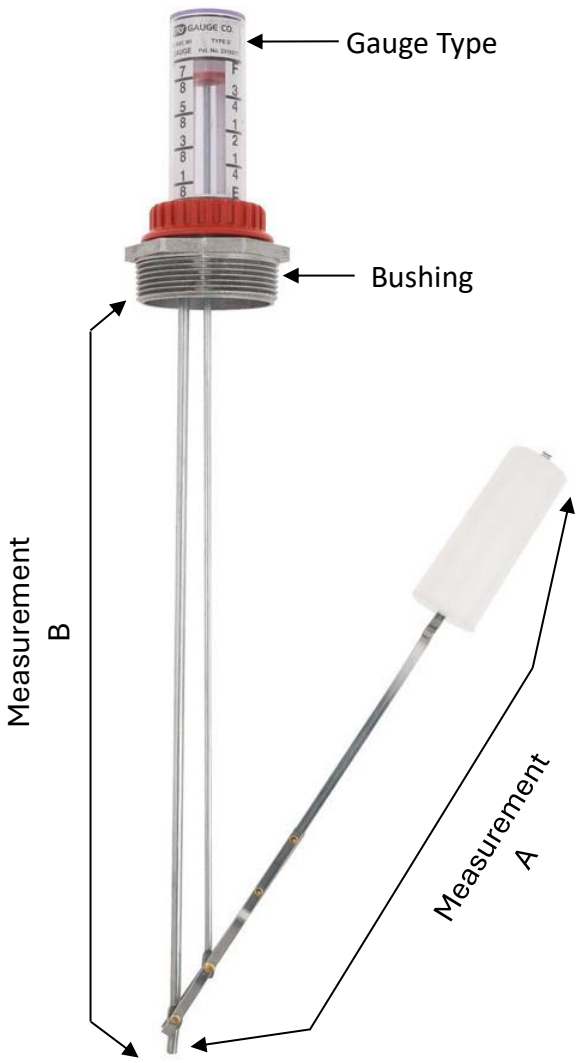


Accessories: Abbreviations and Definitions

- Add **S1** to part number-- Stainless Steel Rods
- Add **SSF** to part number-- Stainless Steel Floats
- Add **S2** to part number-- Stainless Steel Rods and Stainless Steel Floats
- Add **S3** to part number-- Stainless Rods, Stainless Floats, Stainless Bushing, Aluminum Lock Nut, and Glass Calibration
- Add **Peek** to part number-- Peek Rods, HDPE Float, Glass Calibration, and PVC Bushing
- Add **Kynar** to part number-- Kynar Rods, HDPE Float, Glass Calibration, and PVC Bushing
- Add **SGC** to part number-- Calibration is a solid glass piece with aluminum lock nut
- Add **GLC** to Part number-- Calibration gets a Glass internal piece
- Add **ALG** to Part number-- Adds protective guard and aluminum nut to the top of the gauge
- Add **ALN** to part number-- Replaces red plastic nut with an aluminum nut
- Add **NTF** to part number-- Replaces HDPE float with a nitrophyll float

For Custom Components and Add-ons -see page 31

How to Measure your Level Gauge & Get a Part Number



Measurement A: Measure from the very end of the float rod to the very end of the riveted bracket.
(past the last rivet.)

Measurement B: Measure from the bottom of the threads to the very end of the thicker rod.
(past the last rivet)

Ideally, when ordering a gauge, we would like to know your tank measurements in order to be able to manufacture the correct gauge. The measurements we need are as follows:

- Tank depth, or the distance from empty to full.
- Extension length, or the distance from full to gauge threads. Extension length may be 0.
- NPT Opening Size.

Part Number Format:
(gauge type-opening size-tank depth-extension-options)

Tank Depth is the distance in your tank from empty to full.

Extension is the distance in your tank from full to threads.

When getting these measurements from an existing gauge, use the picture to the left and the formulas below.

- **Formula: (2xA)+1 = Tank Depth**
- **Formula: (B-1)-A = Extension Length (may be 0)**

Measure bottom / outside of the bushing. Generally, NPT bushings measure .25” larger than they actually are.

We have .75” NPS, 1.5” NPT and 2” NPT bushings.

Example without Extension:
Measurement A is 23
Measurement B is 24

Formula - (2 x 23) + 1 = 47” tank depth
Formula - (24 - 1) - 23 = 0” extension
Opening measures 1.75” = 1.5” opening

Part Number = D-1.5-47

Example with Extension:
Measurement A is 23
Measurement B is 35

Formula - (2 x 23) + 1 = 47” tank depth
Formula - (35 - 1) - 23 = 11” extension
Opening measures 2.25” = 2” opening

FAQS

Helpful Information:

- Restocking Fee is typically 25% but may vary depending on the individual situation and the type of gauge.
- If you can't determine what size you need see page 40 and 41 of this book or see our order help on our website: https://www.ksentry.com/resource-library/documentation-pdfs.html If that doesn't help, contact us or you can email a copy of your tank drawing and we will help you.
- If you would like to be listed on our website as a distributor, please contact Lee at extension 1 to discuss requirements. https://www.ksentry.com/preferred-distributors.html
- If you would like to list KSG parts on your website, please contact Lee at extension 1 for pictures and information.
- Product PDF files are available upon request or on our website: https://www.ksentry.com/resource-library/documentation-pdfs.html
- What is the difference between the Type H Therma Gauge and the Type D Direct Reading gauge? The type H Gauge allows you more control over the swing arm inside your tank. You can "aim" the swing arm , making it easier to install in applications with limited space inside the tank.
- No minimum order requirements
- 1 year warranty after date of purchase
- PSI rating for gauges is 70 PSI

Notes:

Contact Us

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