KRUEGER SENTRY GAUGE
1873 SIESTA LANE GREEN BAY, WI 54313 | 920-434-8860 | www.ksentry.com

Leak Gauge – Type K

Top mounted liquid leak gauge that can measure from 6 inches to 170 inches in depth. Bushing size can be 2" or 1.5". Gauges are custom made in house to fit your tank. This gauge is designed to monitor either the interstitial space of a double wall containment system, or it can mount into an external monitoring pipe.



Calibration: Consists of 3 pieces –
Outer plastic piece, inner plastic piece, and a piece of paper in between.
Upgrades: Inner glass or Solid Glass

Lock Nut: HDPE Plastic
Also available in aluminum or PVC.

Bushing: Aluminum
Can be 2", 1.5".
Stainless steel options also available

Internal Rods: Standard construction is Aluminum

Union: Compression union

Float: HDPE

Part Number—
K-(size opening)-(tank depth)-(list options)
Example: K-2-48

Environmental Protection – FDEP EQ 675

The Leak gauge is officially approved for use in double wall containment systems by several state environmental protection agencies.

· Florida DEP
· Michigan DEP

Approval letters can be found on the Leak Gauge page of our website.

Material Options:

Internal Rods are limited to standard construction

.75'' Busing available up to 76'' tank depth

Accessories & Add-ons:

- Gauge Guard: A cover that protects the exposed plastic components on top of the gauge.

- Audible Alarm: Can turn your mechanical gauge into an audible Leak alarm.

Instructions for Operation:

This gauge is a simple visual tool. If the red indicator rises into the viewing window, it is indicating that there is a leak occurring in your double wall containment system. Once installed, you simply view the calibration to monitor your interstitial space. The indicator is not calibrated. It simply indicates leak or no leak.

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Accessories and Replacement Parts

Accessories

Direct Mount Alarms- Audible alarm that mounts directly to the gauge and provides audible Leak warning.
(part # add -DAlarm)

Remote Mount Alarms- Audible alarm that can be remotely wired and provides audible Leak warning.
(part # add -RAlarm)



Remote Alarm



Direct Mount Alarm



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

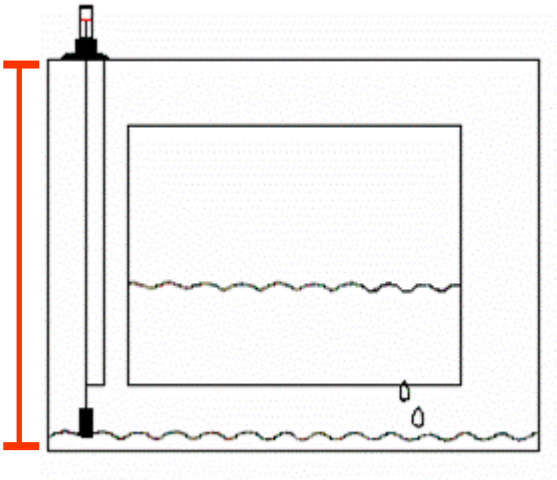
K-Kit- Replaces all the top components with standard materials.
KG-Kit- Replaces all the top components with standard materials and a glass calibration.
KALN-Kit- Replaces all the top components with standard materials and an aluminum lock nut.
KGALN-Kit- Replaces the top components with a glass calibration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



KSG-KIT

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Ordering, Installation, Maintenance and Operation



Installation Instructions:

Assemble for single rod gauge- 6 to 42 inches:
1. Lower gauge into monitoring space, and thread in the bushing.

Assembly for dual rod gauge- 43 to 76 inches:
1. Connect rods together with connector.
2. To disassemble press on top of connector.
3. Be sure connection is secure, lower into monitoring space, and thread in the bushing.

Assembly for multiple rod gauge- 77 inches and up:
1. Remove cotton ball from top of calibration.
2. Connect rods together with brass connectors, use 3/8" and 7/16" wrench to tighten or loosen connectors.
3. Be sure connection is secure, lower into monitoring space, and thread in the bushing.

Instructions for Operation:

This gauge is a simple visual tool. If the red indicator rises into the viewing window, it is indicating that there is a leak occurring in your double wall containment system. Once installed, you simply view the calibration to monitor your interstitial space. The indicator is not calibrated. It simply indicates leak or no leak.

Ordering Instructions:

Part Number Layout:
K-(Opening Size)-(interstitial depth)-(options)

1. State the gauge type (Type K)
2. State the opening size you are using. (1.5"---2")
3. State the interstitial tank depth (pictured left).
4. List other material options and accessories that you prefer. These options and accessories can be located on page 2 of this document. *Skip this if you want standard materials.*

Example Part numbers
- K-2-48
- K-2-24-GLC

Maintenance:

The Leak Gauge can fail in one of three ways

- The calibration assembly on the outside of the tank can become weathered, unreadable, or broken.
- The connecting rods that extend into the tank can come apart or become damaged.
- The float that sits at the bottom of the gauge can come off or become saturated with product.

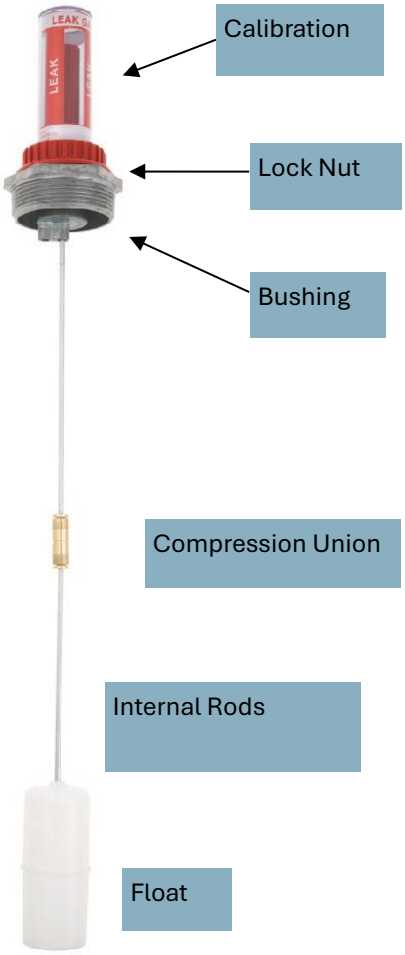
Recommended Maintenance Procedures:

- Once per month: Inspect the top of the unit once per month to ensure that the calibration is visible, readable, and unbroken. (these top pieces can be easily replaced without having to replace the whole gauge)

- Once every 6 months: Unthread the unit and carefully remove it from the tank. Be sure all rods are connected as one piece from the red indicator all the way down to the float. Also inspect the float for damage or leakage. To ensure proper working order, manually raise the float arm from empty to full to be sure that the red indicator freely moves up and down with the motion of the float rod.

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FAQ's and Troubleshooting



Helpful Information:

- Restocking Fee is typically 25% but may vary depending on the individual situation and the type of gauge.
- 1 year warranty after date of purchase
- PSI rating for gauges is 70 PSI



Solid Glass



Inner Glass


Gauge Guard

Frequently Asked Questions:

Q: The top plastic portion of my gauge has become damaged or weathered, what can I do?
A: The top of the gauge is easily replaced, just order a K-Repair Kit which replaces all of the top components of the gauge.

Q: How can I prevent the top of my gauge from becoming weathered or warped in the future?
A: Several upgrades exist that improve the life and performance of the gauge. The glass calibration, which makes the internal part of the calibration into glass, increases the gauges resistance to heat, fumes, and sun.

Q: My gauge top keeps getting broken by hoses/weather/people, do you have a more durable option?
A: We offer something called a Gauge Guard. This is an aluminum cage that replaces the red lock nut and protects the top of your gauge from physical damage and weathering.

Q: The fire inspector says my gauge is not up to code? How can I satisfy
their requirements.
A: If you get the glass calibration and the gauge guard, you are creating a glass and metal barrier between the inside of the tank and the external environment. Explain this to your inspector and see if it satisfies their requirements.

Q: I am experiencing corrosion around the spot where my internal rods enter into the bushing. What causes this, and are there any solutions?
A: This problem occurs on tanks located in certain environmental conditions. Most commonly seen near salt water. You can replace the thermal well (the cup that sits inside the bushing) with a machined PVC part. This will solve any corrosion issues.

Q: My leak gauge is not the correct length for my tank. Can it be adjusted.
A: The leak gauge is the only gauge we make that can be field adjusted, provided it is at least 43 inches long.

Generally, we make the gauge to fit your application, but if the gauge is too long you can trim it at the spot where the Leak Union is. If the gauge is too short, or if it is a one piece gauge with no leak union (under 43") then the gauge cannot be adjusted.