



KRUEGER SENTRY GAUGE®

The Therma Gauge—Type H - FDEP EQ 730



Calibration: Consists of 3 pieces. Outer plastic piece, inner plastic piece, and a piece of paper in between. Optional glass inner piece is available.

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

Bushing: Aluminum bushing, can be 2", 1.5". Special package allows for a Stainless Steel Bushing also.

HDPE Float: Also available in Stainless Steel or Nitrophyll.

Internal Rods: Standard construction is galvanized steel rods with brass rivets. Optional stainless steel rods are available. Stainless steel rod construction eliminates the rivets.

Part Number—
H-(size opening)-(tank depth)+(ext)-(list options)
Sample—H-2-48+12

What it is:

Top mounted liquid level gauge that can measure from 6 inches to 144 inches in depth. Bushing size can be 2" or 1.5". Gauges are custom made in house to fit your tank. Can also accommodate for double walls and pipe risers. The Type H Gauge has a 2 piece bushing construction that allows you to aim your swing arm away from walls, corners, and other obstructions.

Additional Options:

Audible Alarm Accessory: This add on feature can turn your mechanical gauge into an audible Hi or Lo level alarm.

LED At-A-Glance Accessory: Another add on feature. This can give your mechanical gauge remote reading capability.

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

Material Choices and Limitations:

Standard choices are listed on picture to the left.

Stainless Steel Floats: Maximum tank depth is reduced to 120 inches.

Material Packages / Gauge Packages:

All SS Model—It comes standard with Glass Calibration, Aluminum Locking Nut, Stainless Steel Bushing, Stainless Steel Rods, and Stainless Steel Floats.

All Plastic Model—Type PH—This model comes standard with Glass Calibration, PVC Gauge Guard, PVC Bushing, PEEK Plastic Rods, HDPE Plastic Float.

Krueger Sentry Gauge
1873 Siesta Lane
Green Bay, WI 54313

www.ksentry.com



Contact us for more info or a local distributor:

Ph: 920-434-8860

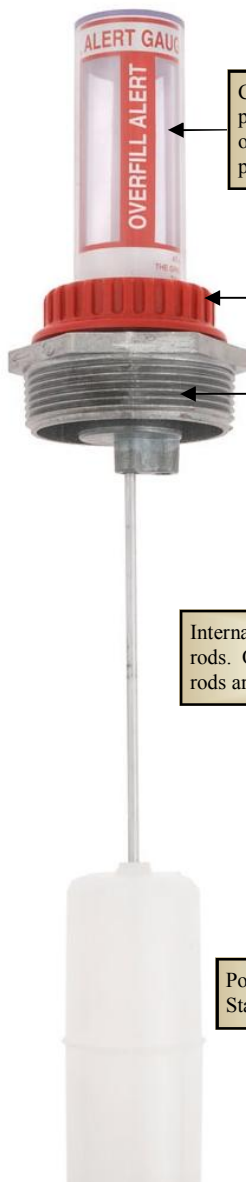
Fax: 920-434-8897

Email: info@ksentry.com



KRUEGER SENTRY GAUGE

The Overfill Gauge—Type O - Florida EQ 730



Calibration: Consists of 3 pieces. Outer plastic piece, inner plastic piece, and a piece of paper in between. Optional glass inner piece is available.

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

Bushing: Aluminum bushing, can be 2", 1.5", or .75". Special package allows for a Stainless Steel Bushing or PVC Bushing.

Internal Rods: Standard construction is Aluminum rods. Optional stainless steel rods, or Peek Plastic rods are available.

Polypropylene Float: Also available in Stainless Steel or Nitrophyll.

Part Number—
O-(size opening)-(overfill warning level)-(list options)
Sample—O-2-8

What it is:

Top mounted pop up gauge that can measure from 6 inches to 76 inches in Length. Bushing size can be 2", 1.5" or .75". Gauges are custom made in house to fit your application. Most Overfill Alert Gauges are between 6 inches and 12 inches. 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.

Additional Options:

Audible Alarm Accessory: This add on feature can turn your mechanical gauge into an audible Hi or Lo level alarm. (*price book page 8*)

LED At-A-Glance Accessory: Another add on feature. This can give your mechanical gauge remote reading capability. (*price book page 1*)

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

Material Choices and Limitations:

Standard choices are listed on picture to the left.

Some options such as stainless rods, stainless floats, and plastic rods will limit the sizes available.

Material Packages / Gauge Packages:

All SS Model—It comes standard with Glass Calibration, Aluminum Locking Nut, Stainless Steel Bushing, Stainless Steel Rods, and Stainless Steel Floats. (*price book page 4*)

All Plastic Model—Type PO—This model comes standard with Glass Calibration, PVC Gauge Guard, PVC Bushing, PEEK Plastic Rods, HDPE Plastic Float. (*price book page 4*)

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KRUEGER SENTRY GAUGE

The Overfill Gauge—Type O

Price Book Page 6

Model	Calibration	Indicator	Lock Nut	Bushing	Internal Rods	Rivets	Floats	Gasket
Standard (6"-76")	Cellulose Acetate-Plastic	HDPE	HDPE	Aluminum	Aluminum	NA	Polypropylene	Nitrile
-SSR (6"-43")	Cellulose Acetate-Plastic	HDPE	HDPE	Aluminum	Stainless Steel	NA	Polypropylene	Nitrile
-SSR-SSF (6"-24")	Cellulose Acetate-Plastic	HDPE	HDPE	Aluminum	Stainless Steel	NA	Stainless Steel	Nitrile
TYPE PO all plastic (8"-36")	Glass Internal Plastic External	HDPE	PVC Guard	PVC	PEEK Plastic Or Kynar Plastic	NA	HDPE	Viton
ALL SS (6"-24")	Glass Internal Plastic External	HDPE	Aluminum	Stainless	Stainless	NA	Stainless	Viton
Options available for all of above	GLC -Glass internal, plastic external		ALN - Aluminum Lock Nut			N/A	NTF — Nitrophenyl	VTN —Viton

- Sample Part Number—O-2-8-SSR-SSF

Other Options Available on the Type H Gauge

Price Book Page 3

Level Gauge Accessory	Description	Web Link
At-A-Glance Alarm	Audible Hi or Lo Level Alarm Accessory. Retrofits right to gauge. 110 decibel alarm. 9volt lithium battery.	http://www.ksentry.com/alarm.htm
At-A-Glance LED	Add a remote display to this gauge. Up to 100 feet of wired remote capability. Hi and Lo adjustable alarms. 9volt lithium battery.	http://www.ksentry.com/led.htm
Gauge Guard Aluminum or PVC	Durable sleeve that covers the plastic components on top of the gauge. Extend the life of the exposed parts of the gauge, and protect it from physical damage.	http://www.ksentry.com/replace.htm

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Maintenance on the Therma Gauge and Overfill Alert Gauge.

Possible Problems:

The Therma Gauge or Overfill Alert Gauge can fail in one of three ways.

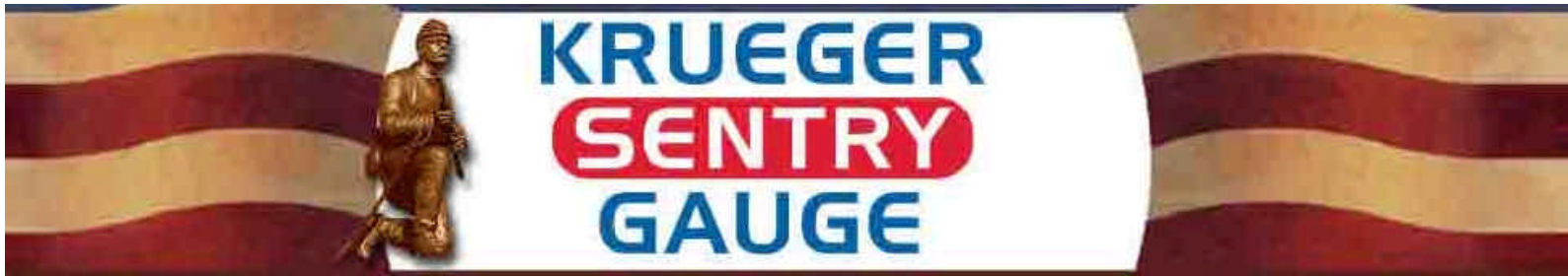
- The calibration assembly on the outside of the tank can become weathered, unreadable, or broken.
- The connecting rods that extend into the tank can come apart or become damaged.
- The float that sits at the bottom of the gauge can come off or become saturated with product (leak).

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.
- Once every year: If you are using the optional Audible Alarm, the battery must be replaced once per year. Also repeat the previous monthly and bi yearly actions above.

Any follow-up questions can be directed to Lee Geurts (920) 434-8860.

Lee Geurts
lee@ksentry.com
<http://www.ksentry.com>

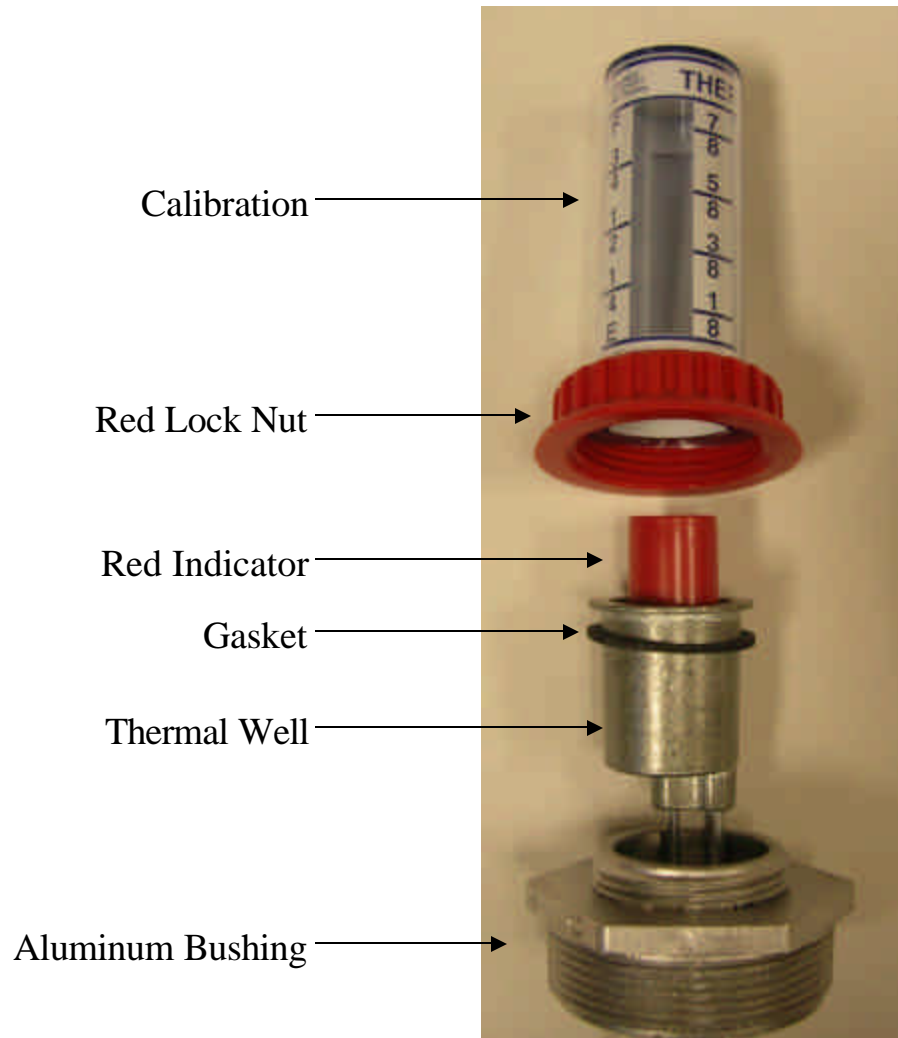


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Installation on the Therma Gauge.

1. Unthread the red lock nut on the top of the gauge. This will allow the bushing and the plastic calibration to come off of the gauge.
2. Thread the aluminum bushing into the fitting on top of your tank. Be sure to use thread sealer.
3. Drop the whole gauge assembly thru the hole on top of the bushing. The gasket should be between the bushing and the thermal well. (as pictured)
4. Be sure your swing arm (the arm with the float on it) is facing away from any walls or obstructions so it can freely swing up and down.
5. Place the calibration on top, slide the red nut over it, and HAND tighten it into place until the calibration can no longer spin.

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lee@ksentry.com





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Installation on the Overfill Gauge.

The Overfill Gauge is a very simple install. You need only to thread the bushing into the fitting on top of your tank. It is ready to go.

Any follow-up questions can be directed to Lee Geurts (920) 434-8860.

Lee Geurts

lee@ksentry.com

Mr. Lee Geurts

Krueger Sentry Gauge
1873 Siesta Lane
GreenBay, WI 54313

SUBJECT: Approval of Krueger Therma Gauge and Overfill Alert Gauge, File
No. EQ-730

Dear Mr. Geurts:

The Bureau of Petroleum Storage Systems has concluded review of Equipment Approval request dated March 23, 2009, submitted for the above referenced equipment that pursuant to Rule 62-762.851, Florida Administrative Code (F.A.C.).

Based on the information provided by Krueger Sentry Gauge, the Department finds that the Krueger Therma Gauge and Overfill Alert Gauge will provide environmental protection substantially equivalent to that provided by compliance with the requirements established in Rule 62-762.501 (2)(d), F.A.C.

Pursuant to Rule 62-762.851, F.A.C., the request for the use of Krueger Therma Gauge and Overfill Alert Gauge is approved for overfill prevention for aboveground storage tanks in the State of Florida. A copy of this Order shall be distributed to any facility that uses this product. A copy of the annual operability test shall be given to any tank owner purchasing or using this system in the state of Florida. The annual operability test shall be done in accordance of Exhibit A attached to the Final Order.

Please be advised that the above referenced DEP rules are subject to change. If the above rule standards are modified in the future, this order may be modified or rescinded for future upgrades and installations. Additionally, if the product(s) shows a consistent pattern of failure(s), and therefore does not provide substantially equivalent environmental protection, the Department may rescind this order.

The Department's Order shall become final unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57, F.S., within 21 days of receipt of this Order. Persons who have filed such a petition may seek to mediate the dispute and choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for petitioning for a hearing and pursuing mediation are set forth below.

Persons affected by this Order have the following options:

- A. If you choose to accept the Department's decision regarding the Order, you do not have to do anything. This Order is final and effective as of the date on the top of the first page of this Order.
- B. If you choose to challenge the decision, you may do the following:
 1. File a request for an extension of time to file a petition for hearing with the Department's Agency Clerk in the Office of General Counsel within **21** days of receipt of this Order. This request should be made if you wish to meet with the Department in an attempt to resolve any disputes without first filing a petition for hearing or negotiate an agreement to mediate; or
 2. File a petition for administrative hearing with the Department's Agency Clerk in the Office of General Counsel within **21** days of receipt of this Order.
 3. In addition to requesting an administrative hearing, any petitioner may elect to pursue mediation under Section 120.573, F.S., and must negotiate an agreement to mediate within **10** days after the deadline for filing a petition.

How to Request an Extension of Time to File a Petition for Hearing

For good cause shown, pursuant to Rule 62-110.106(4), F.A.C., the Department may grant a request for an extension of time to file a petition for hearing. Such a request must be filed (received) by the Agency Clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, within **21** days of receipt of this Order. Petitioner, if different from the applicant, shall mail a copy of the request to the applicant at the time of filing. Failure to file a petition within this time period shall waive the right of anyone who may request an administrative hearing under Sections 120.569 and 120.57, F.S.

How to File a Petition for Administrative Hearing

A person whose substantial interests are affected by this Order may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed

(received) by the Agency Clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, MS 35, Tallahassee, Florida, 32399-3000, within **21** days of receipt of this Order. Petitioner, if different from the applicant shall mail a copy of the petition to the applicant at the time of filing. Failure to file a petition within this time period shall waive the right of anyone who may request an administrative hearing under Sections 120.569 and 120.57, F.S.

Pursuant to Subsection 120.569(2), F.S., and Rule 28-106.201, F.A.C., a petition for administrative hearing shall contain the following information.

- a) The name, address, and telephone number of each petitioner; the name, address, and telephone number of the petitioner's representative, if any, the site owner's name and address, if different from the petitioner, the DEP facility number, and the name and address of the facility;
- b) A statement of when and how the petitioner received notice of the Department's action or proposed action;
- c) An explanation of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;
- d) A statement of the disputed issues of material fact, or a statement that there are no disputed facts;
- e) A concise statement of the ultimate facts alleged, including a statement of the specific facts the petitioner contends warrant reversal or modification of the Department's action or proposed action;
- f) A statement of the specific rules or statutes the petitioner contends requires reversal or modification of the Department's action or proposed action; and
- g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the Department to take with respect to the Department's action or proposed action.

How to Pursue Mediation

In addition to requesting an administrative hearing, any petitioner may elect to pursue mediation. The election may be accomplished by filing with the Department a mediation agreement with all parties to the proceeding (i.e., the applicant, the Department, and any person who has filed a timely and sufficient petition for hearing). The agreement must contain all the information required by Rule 28-106.404, F.A.C. The agreement, signed by all parties, must be received by the Agency Clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000 within **10** days after the deadline for filing a petition, as set forth above. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement.

Pursuant to Rule 28-106.404, F.A.C., an agreement to mediate must include the following.

- (i) The name, address, and telephone number of the persons who may attend the mediation, (also the DEP facility number, the name and address of the facility if applicable); (ii) The name, address, and telephone number of the mediator agreed to by the parties; (iii) How the costs and fees associated with the mediation will be allocated (the Department will not pay any of the costs of mediation); (iv) The agreement of the parties regarding the confidentiality of discussions and documents introduced during mediation to the extent authorized by law;
- (v) The date, time, and place of the first mediation session; (vi) The name of the party's representative who shall have authority to settle or recommend settlement; and (vii) The signature of the parties.

As provided in Section 120.573, F.S., the timely agreement of all parties to mediate will toll the time limitations imposed by Sections 120.569 and 120.57, F.S., for holding an administrative hearing and issuing a final order. Unless otherwise agreed by the parties, the mediation must be concluded within sixty days of the execution of the agreement. If mediation results in settlement of the administrative dispute, the Department must enter a final order incorporating the agreement of the parties. Persons seeking to protect their substantial interests that would be affected by such a modified final decision must file their petitions within 21 days of receipt of this notice, or they shall be deemed to have waived their right to a proceeding under Sections 120.569 and 120.57, F.S. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under Sections 120.569 and 120.57, F.S., are resumed.

This Order is final and effective as of the date on the top of the first page of this Order. Timely filing a petition for administrative hearing postpones the date this Order takes effect until the Department issues either a final order pursuant to an administrative hearing or mediation settlement.

Judicial Review

Any party to this Order has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the Agency Clerk of the Department in the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within thirty days after this order is filed with the clerk of the Department (see below).