Company Profile

**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. *No minimum orders*  *Direct ship orders accepted*

**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.
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**Recommended Gauge** | **Gauge Components** | **Chemical**
--- | --- | ---
Standard | Plastic calibration, HDPE lock nut, Nitrile Gasket, Aluminum Bushing, Galvanized Steel Rods, and HDPE Floats | Diesel, Gasoline, Hydraulic Oil, Transmission Fluid, Isopropyl
NTF | Plastic calibration, HDPE lock nut, Nitrile Gasket, Aluminum Bushing, Galvanized Steel Rods, and Nitrophyll Floats | Mineral Spirits
SSF | Plastic calibration, HDPE lock nut, Nitrile Gasket, Aluminum Bushing, Galvanized Steel Rods, and Stainless Steel Floats | Break Fluid, Methyl Ethyl Ketone
SSR | Plastic calibration, HDPE lock nut, Nitrile Gasket, Aluminum Bushing, Stainless Steel Rods, and HDPE Floats | Citric Acid
SSR-GLC | Glass calibration, HDPE lock nut, Nitrile Gasket, Aluminum Bushing, Stainless Steel Rods, and HDPE Floats | Methanol, Windshield Washer Fluid
SSR-SSF-VTN | Plastic calibration, HDPE lock nut, Viton Gasket, Aluminum Bushing, Stainless Steel Rods, and Stainless Steel Floats | Biodiesel/Methyl Oleate
ALLSS | 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
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 Gauge | Glass calibration, PVC lock nut, Viton Gasket, PVC Bushing, Kynar Rods, and HDPE Floats | Chlorine, Sulfuric Acid
**At-A-Glance® Direct Reading Gauge (Type D)**

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

**PICTURE AND COMPONENT EXPLANATION**

Top Mount Mechanical Liquid Level Swing Arm Style Gauge
Standard Construction is ULC approved

Pictured: Standard Type D Level Gauge
Upgrades also listed on page 6

- **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 or PVC

- **Bushing:**
  - Can be 2”, 1.5”, or .75”
  - 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. Also available in Viton.

**NOTES:** Additional materials are available when using some of the other level gauges. The Therma Gauges offers an ALLSS model which includes stainless steel bushing. The Chemical Gauge offers an All Plastic model which includes a PVC Bushing and PEEK plastic rods.
At-A-Glance® Direct Reading Gauge (Type D)

GAUGE INFORMATION

Top Mount Mechanical Liquid Level Swing Arm Style Gauge
Standard Construction is ULC approved

- Custom sizes from 6 inches to 144 inches
- Available in .75” 1.5” 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
- Gasoline
- Hydraulic Oil
- Isopropyl
- Methanol (add SSR-GLC)
- Mineral Spirits (add NTF)
- (call for more info)

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

Terms:
- (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-SSR (2” opening, 42” tank depth, 12” riser, stainless steel rods)

**For more information visit www.ksentry.com/ordhelp.htm**

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.

Tank Depth = empty to full
Extension = full to threads
At-a-Glance® Direct Reading Gauge (Type D)

**UPGRADES AND REPLACEMENT PARTS**

**Upgrades and Add-on Accessories**

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<td>Viton Gasket</td>
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<td>Nitrophyll Float</td>
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<td>Aluminum Gauge Guard</td>
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<td>PVC Gauge Guard</td>
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<td>Calibration Paper</td>
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<td>Indicator Disc</td>
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<td>Duro Nitrile Gasket (Std)</td>
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<td>Viton Gasket</td>
<td>D-VTN</td>
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<td>Red Lock Nut</td>
<td>D-RDN</td>
</tr>
<tr>
<td>Aluminum Lock Nut</td>
<td>D-ALN</td>
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<tr>
<td>Aluminum Gauge Guard</td>
<td>ALG</td>
</tr>
<tr>
<td>PVC Gauge Guard</td>
<td>PVG</td>
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<tr>
<td>Polyethylene Float (Std)</td>
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<td>Nitrophyll Float</td>
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<td>2” Bushing</td>
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<tr>
<td>Calibration, Indicator Disc, Gasket, and Red Lock Nut</td>
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<tr>
<td>Glass Calibration, Indicator Disc, Gasket, and Red Lock Nut</td>
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<td>Calibration, Indicator Disc, Gasket, and Aluminum Lock Nut</td>
<td>DALN-KIT</td>
</tr>
<tr>
<td>Glass Calibration, Indicator Disc, Gasket, and Aluminum Lock Nut</td>
<td>DGALN-KIT</td>
</tr>
</tbody>
</table>
Therma Gauge (Type H)

PICTURE AND COMPONENT EXPLANATION

Top Mount Mechanical Liquid Level Swing Arm Style Gauge
More control over swing arm direction
(Approved in FL for overfill protection)

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 or PVC

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

Thermalwell:
Standard: 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. Also available in Viton.
**Therma Gauge (Type H)**

**GAUGE INFORMATION**

Top Mount Mechanical Liquid Level Swing Arm Style Gauge—More control over swing arm direction

(Approved in FL for overfill protection)

- Custom sizes from 6 inches to 144 inches
- Available in 1.5” 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

**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-SSR (2” opening, 42” tank depth, 12” riser, stainless steel rods)

**For more information visit www.ksentry.com/ordhelp.htm**

**Compatible Chemicals**

- Diesel
- Gasoline
- Hydraulic Oil
- Isopropyl
- Methanol (add SSR-GLC)
- Mineral Spirits (add NTF)
- (call for more info)

**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.

Optional Bushings/Flanges:

- 1 5/16” aluminum 5 hole bolt on flange
- 1 5/16” steel flange (CRS) for welding or soldering

Custom bushing allows for installation of the liquid level monitor on your tank with no need for a threaded fitting. Requires a 1.65” hole.
Therma Gauge (Type H)

UPGRADES AND REPLACEMENT PARTS

Upgrades and Add-on Accessories

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</tbody>
</table>

Replacement Parts

Individual Parts

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<td>Plastic Calibration (Std)</td>
<td>H-CAL</td>
</tr>
<tr>
<td>Glass Calibration</td>
<td>HG-CAL</td>
</tr>
<tr>
<td>Calibration Paper</td>
<td>H-PAP</td>
</tr>
<tr>
<td>Indicator Tube</td>
<td>H-IND</td>
</tr>
<tr>
<td>Duro Nitrile Gasket (Std)</td>
<td>H-GAS</td>
</tr>
<tr>
<td>Viton Gasket</td>
<td>H-VTN</td>
</tr>
<tr>
<td>Red Lock Nut</td>
<td>H-RDN</td>
</tr>
<tr>
<td>Aluminum Lock Nut</td>
<td>H-ALN</td>
</tr>
<tr>
<td>Aluminum Gauge Guard</td>
<td>ALG</td>
</tr>
<tr>
<td>PVC Gauge Guard</td>
<td>PVG</td>
</tr>
<tr>
<td>Polyethylene Float (Std)</td>
<td>PLF</td>
</tr>
<tr>
<td>Nitrophyll Float</td>
<td>NTF</td>
</tr>
<tr>
<td>1.5” Bushing</td>
<td>H-1.5B</td>
</tr>
<tr>
<td>2” Bushing</td>
<td>H-2B</td>
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</table>

Kits

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calibration, Indicator Disc, Gasket, and Red Lock Nut</td>
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</tr>
<tr>
<td>Glass Calibration, Indicator Disc, Gasket, and Red Lock Nut</td>
<td>HG-KIT</td>
</tr>
<tr>
<td>Calibration, Indicator Disc, Gasket, and Aluminum Lock Nut</td>
<td>HALN-KIT</td>
</tr>
<tr>
<td>Glass Calibration, Indicator Disc, Gasket, and Aluminum Lock Nut</td>
<td>HGALN-KIT</td>
</tr>
</tbody>
</table>

STANDARD "H" KIT

KRUEGER SENTRY GAUGE CO. INC.  Phone: (920) 434-8860  Fax: (920) 434-8897  website: http://www.ksentry.com
All Stainless Steel Therma Gauge (Type H-ALLSS)

PICTURE AND COMPONENT EXPLANATION

Top Mount Mechanical Liquid Level Swing Arm Style Gauge
More control over swing arm direction
(Approved in FL for overfill protection)

Calibration: Inner piece is glass and outer piece is cellulose acetate

Lock Nut: Aluminum

Bushing: Can be 2” or 1.5” Stainless Steel

Thermalwell: Stainless Steel

Float: 304 Stainless Steel

Internal Rods: 316 Stainless Steel

Other Materials: Indicator is HDPE Plastic. Gasket is duro nitrile. Also available in Viton.
All Stainless Steel Therma Gauge (Type H-ALLSS)

GAUGE INFORMATION
Top Mount Mechanical Liquid Level Swing Arm Style Gauge

- 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

Compatible Chemicals
- Caustic
- Sodium Hydroxide
- E-85
- Ethanol
- Peroxide
- Potassium Hydroxide
- DEF

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-SSR (2” opening, 42” tank depth, 12” riser, stainless steel rods)
**For more information visit www.ksentry.com/ordhelp.htm**

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.
Peek Plastic Gauge (Type PD or PH)

PICTURE AND COMPONENT EXPLANATION
Top Mount Mechanical Liquid Level Swing Arm Style Gauge

**Internal Rods:**
- Standard: Peek Plastic with Peek rivets
- Also available in Kynar rods with PVC rivets

**Calibration:**
- Inner piece is glass and outer piece is cellulose acetate

**Lock Nut and Gauge Guard:**
- This is one unit made out of PVC

**Bushing:**
- Can be 1.5” or 2”
- Standard: PVC
- Standard is NPT Straight. If special treads are required please contact us

**HDPE Float**

**Other Materials:**
- Indicator is HDPE Plastic. Gasket is Viton.
Peek Plastic Gauge (Type PD or PH)

GAUGE INFORMATION
Top Mount Mechanical Liquid Level Swing Arm Style Gauge

- 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” NPT 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

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<thead>
<tr>
<th>Rods</th>
<th>Chemicals</th>
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<td>Bleach</td>
<td>Chlorine</td>
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<tr>
<td>Ferric Chloride</td>
<td>Sulfuric Acid</td>
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<tr>
<td>Hydrochloric Acid</td>
<td></td>
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<tr>
<td>Phosphoric Acid</td>
<td></td>
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</tbody>
</table>

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)

**For more information visit www.ksentry.com/ordhelp.htm**

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.

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 )

**Type PD:** designed like the At-A-Glance® Type D Gauge (see pages )
Barrel Gauge (Type B)

PICTURE AND COMPONENT EXPLANATION

Top Mount Mechanical Liquid Level Swing Arm Style Gauge—Designed for 15, 30, or 55 gallon drums

**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 or PVC

**Bushing:** Can be 2”, 1.5” or .75”
Standard: Aluminum
Available upgrade: PVC or Stainless Steel (SS only for 2” and 1.5”)

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

**Internal Rods:**
.75” Standard: Galvanized Steel and Aluminum Rods
Available upgrade: Stainless Steel (float will be Nitrophyll), Kynar or Peek
1.5” and 2” Standard: Galvanized Steel Rods

**Other Materials:**
Indicator is HDPE Plastic. Gasket is duro nitrile. Also available in Viton.
Barrel Gauge (Type B)

GAUGE INFORMATION
Top Mount Mechanical Liquid Level Swing Arm Style Gauge—Designed for 15, 30, or 55 gallon drums

- Sizes for 55, 30, or 15 gallon drum tanks
- Available in .75” 1.5” and 2” NPT opening
- Has a gallon 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-SSR-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 www.ksentry.com/ordhelp.htm**

Compatible Chemicals (some examples for reference only)

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<th>Standard</th>
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<th>Stainless Rods/Floats</th>
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Barrel Gauge (Type B)

UPGRADES AND REPLACEMENT PARTS

Upgrades and Add-on Accessories

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<td>Viton Gasket</td>
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<tr>
<td>Nitrophyl Float</td>
<td>NTF</td>
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<tr>
<td>Aluminum Gauge Guard</td>
<td>ALG</td>
</tr>
<tr>
<td>PVC Gauge Guard</td>
<td>PVG</td>
</tr>
<tr>
<td>Alarms/Remote Displays</td>
<td></td>
</tr>
</tbody>
</table>

See pages 31-34

Individual Parts

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic Calibration (Std)</td>
<td>B-CAL</td>
</tr>
<tr>
<td>Glass Calibration</td>
<td>BG-CAL</td>
</tr>
<tr>
<td>Calibration Paper (specify gallon)</td>
<td>B-PAP(gallon)</td>
</tr>
<tr>
<td>Indicator Disc</td>
<td>B-IND</td>
</tr>
<tr>
<td>Duro Nitrile Gasket (Std)</td>
<td>B-GAS</td>
</tr>
<tr>
<td>Viton Gasket</td>
<td>B-VTN</td>
</tr>
<tr>
<td>Red Lock Nut</td>
<td>RDN</td>
</tr>
<tr>
<td>Aluminum Lock Nut</td>
<td>B-ALN</td>
</tr>
<tr>
<td>Aluminum Gauge Guard</td>
<td>ALG</td>
</tr>
<tr>
<td>PVC Gauge Guard</td>
<td>PVG</td>
</tr>
<tr>
<td>Polyethylene Float (Std)</td>
<td>PLF</td>
</tr>
<tr>
<td>Polyethylene Float (3/4” NPT)</td>
<td>PLF.75</td>
</tr>
<tr>
<td>Nitrophyl Float</td>
<td>NTF</td>
</tr>
</tbody>
</table>

Kits

**specify gallon size**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calibration, Indicator Disc, Gasket, and Red Lock Nut</td>
<td>B-KIT</td>
</tr>
<tr>
<td>Glass Calibration, Indicator Disc, Gasket, and Red Lock Nut</td>
<td>BG-KIT</td>
</tr>
<tr>
<td>Calibration, Indicator Disc, Gasket, and Aluminum Lock Nut</td>
<td>BALN-KIT</td>
</tr>
<tr>
<td>Glass Calibration, Indicator Disc, Gasket, and Aluminum Lock Nut</td>
<td>BGALN-KIT</td>
</tr>
</tbody>
</table>
Leak Interstitial Monitor Gauge (Type K)

PICTURE AND COMPONENT EXPLANATION

Top Mount Mechanical Leak Detection Gauge
(Approved in FL and MI for leak protection)

- **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 or PVC

- **Bushing:** Can be 1.5” or 2”
  - Standard: Aluminum
  - Available upgrade: PVC

- **Thermalwell:**
  - Standard: Aluminum
  - Available upgrade: PVC

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

- **Float:**
  - For gauges 6” to 76” — polypropylene
  - For gauges 77” to 170” — poly coated cork

- **Other Materials:**
  - Indicator is HDPE Plastic. Gasket is duro nitrile. Also available in Viton.
Example illustration of application:

The Interstitial Leak Gauge is custom made in house to fit your tank.

We can accommodate any size tank from 6 inches to 170 inches in depth.

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.

**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 www.ksentry.com/ordhelp.htm**
## Leak Interstitial Gauge (Type K)

### UPGRADES AND REPLACEMENT PARTS

### REPLACEMENT PARTS

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic Calibration (Std)</td>
<td>K-CAL</td>
</tr>
<tr>
<td>Glass Calibration</td>
<td>KG-CAL</td>
</tr>
<tr>
<td>Calibration Paper</td>
<td>K-PAP</td>
</tr>
<tr>
<td>Indicator Tube</td>
<td>K-IND</td>
</tr>
<tr>
<td>Duro Nitrile Gasket (Std)</td>
<td>K-VTNG</td>
</tr>
<tr>
<td>Viton Gasket</td>
<td>K-VTN</td>
</tr>
<tr>
<td>Red Lock Nut</td>
<td>K-RDN</td>
</tr>
<tr>
<td>Aluminum Lock Nut</td>
<td>K-ALN</td>
</tr>
<tr>
<td>Aluminum Gauge Guard</td>
<td>ALG</td>
</tr>
<tr>
<td>PVC Gauge Guard</td>
<td>PVG</td>
</tr>
<tr>
<td>Polypropylene Float (6”-76”)</td>
<td>K-PKF</td>
</tr>
<tr>
<td>Poly Coat Cork Float (77”-170”)</td>
<td>K-CORK</td>
</tr>
<tr>
<td>1.5” Bushing</td>
<td>K-1.5B</td>
</tr>
<tr>
<td>2” Bushing</td>
<td>K-2B</td>
</tr>
<tr>
<td>1/8” Union (6”-76”)</td>
<td>1/8Comp</td>
</tr>
<tr>
<td>3/16” Union (77”-170”)</td>
<td>3/16Comp</td>
</tr>
</tbody>
</table>

### Accessories

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Add-on</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass Calibration</td>
<td>GLC</td>
</tr>
<tr>
<td>Aluminum Lock Nut</td>
<td>ALN</td>
</tr>
<tr>
<td>Viton Gasket</td>
<td>VTN</td>
</tr>
<tr>
<td>Aluminum Gauge Guard</td>
<td>ALG</td>
</tr>
<tr>
<td>PVC Gauge Guard</td>
<td>PVG</td>
</tr>
</tbody>
</table>

### UPGRADES AND ADD-ON ACCESSORIES

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass Calibration, Gasket, Red Lock Nut, Indicator Tubes, and Clips</td>
<td>K-KIT</td>
</tr>
<tr>
<td>Glass Calibration, Gasket, Red Lock Nut, Indicator Tubes, and Clips</td>
<td>KG-KIT</td>
</tr>
<tr>
<td>Calibration, Gasket, Aluminum Lock Nut, Indicator Tubes, and Clips</td>
<td>KALN-KIT</td>
</tr>
<tr>
<td>Glass Calibration, Gasket, Aluminum Lock Nut, Indicator Tubes, and Clips</td>
<td>KGALN-KIT</td>
</tr>
</tbody>
</table>

### Alarms/Remote Displays: See pages 31-34

### STANDARD "K" KIT

---

**KRUEGER SENTRY GAUGE CO. INC.**  Phone: (920) 434-8860  Fax: (920) 434-8897  website: http://www.ksentry.com
Top Mount Mechanical Overfill Alert Gauge
(Approved in FL for overfill protection)

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

Red Lock Nut:
Standard: HDPE
Available upgrade: Aluminum or PVC

Bushing:
Standard: Aluminum
Available upgrade: PVC or Stainless Steel

Thermalwell:
Standard: Aluminum
Available upgrade: PVC

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

Float:
Standard: Polypropylene
Available upgrade: Stainless Steel or Nitrophenyl

Other Materials:
Indicator is HDPE Plastic. Gasket is duro nitrile. Also available in Viton.
Overfill Alert Gauge (Type OF)

GAUGE EXPLANATION

Top Mount Mechanical Overfill Alert Gauge
(Approved in FL for overfill protection)

- Designed to alert when tank is about 90% full
- Custom sizes from 6 inches to 40 inches
- Available in .75” 1.5” or 2” NPT opening
- 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-ALLSS (2” opening, 6” length, all stainless steel construction)

**For more information visit www.ksentry.com/ordhelp.htm**

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 that 95% capacity. These measurements will vary depending upon each individual tank. It is the customers responsibility to insure that we receive the proper measurements for correct overfill warning.
# Overfill Alert Gauge (Type OF)

## Upgrades and Replacement Parts

### Upgrades and Add-on Accessories

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Add-on</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass Calibration</td>
<td>GLC</td>
</tr>
<tr>
<td>Aluminum Lock Nut</td>
<td>ALN</td>
</tr>
<tr>
<td>Viton Gasket</td>
<td>VTN</td>
</tr>
<tr>
<td>Nitrophenyl Float</td>
<td>NTF</td>
</tr>
<tr>
<td>Aluminum Gauge Guard</td>
<td>ALG</td>
</tr>
<tr>
<td>PVC Gauge Guard</td>
<td>PVG</td>
</tr>
<tr>
<td>Vented Bushing</td>
<td>VNT</td>
</tr>
</tbody>
</table>

### Replacement Parts

#### Individual Parts

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic Calibration (Std)</td>
<td>OF-CAL</td>
</tr>
<tr>
<td>Glass Calibration</td>
<td>OFG-CAL</td>
</tr>
<tr>
<td>Calibration Paper</td>
<td>OF-PAP</td>
</tr>
<tr>
<td>Indicator Tube</td>
<td>OF-IND</td>
</tr>
<tr>
<td>Duro Nitrile Gasket (Std)</td>
<td>OF-GAS</td>
</tr>
<tr>
<td>Viton Gasket</td>
<td>OF-VTN</td>
</tr>
<tr>
<td>Red Lock Nut</td>
<td>RDN</td>
</tr>
<tr>
<td>Aluminum Lock Nut</td>
<td>OF-ALN</td>
</tr>
<tr>
<td>Aluminum Gauge Guard</td>
<td>ALG</td>
</tr>
<tr>
<td>PVC Gauge Guard</td>
<td>PVG</td>
</tr>
<tr>
<td>Polyethylene Float (Std)</td>
<td>PLF</td>
</tr>
<tr>
<td>Nitrophenyl Float</td>
<td>NTF</td>
</tr>
<tr>
<td>1.5” Bushing</td>
<td>OF-1.5B</td>
</tr>
<tr>
<td>2” Bushing</td>
<td>OF-2B</td>
</tr>
</tbody>
</table>

#### Kits

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calibration, Indicator Disc, Gasket, and Red Lock Nut</td>
<td>OF-KIT</td>
</tr>
<tr>
<td>Glass Calibration, Indicator Disc, Gasket, and Red Lock Nut</td>
<td>OFG-KIT</td>
</tr>
<tr>
<td>Calibration, Indicator Disc, Gasket, and Aluminum Lock Nut</td>
<td>OFALN-KIT</td>
</tr>
<tr>
<td>Glass Calibration, Indicator Disc, Gasket, and Aluminum Lock Nut</td>
<td>OFGALN-KIT</td>
</tr>
</tbody>
</table>
L Gauge (Type L)

PICTURE AND COMPONENT EXPLANATION

Top Mount Low Profile Mechanical Liquid Level Gauge

Gasket:
Seals the gauge to the bushing
Standard material: Duro Nitrile
Available upgrade: Viton

Calibration:
Contains the red marks and the letters E and F for Empty and Full.
Standard material: Cellulose Acetate

Locknut:
Red plastic locking nut tightens the calibration and the gauge to the bushing
Standard material: HDPE
Available upgrade: Aluminum or PVC

Bushing:
NPT male fitting that threads into your tank’s female fitting
Standard material: Aluminum

Rod:
Mobile rod inside the tank, moves the red indicator
Standard material: Aluminum
Available upgrade: Stainless Steel

Float:
Attached to the rod inside the tank. Floats on top of the liquid.
Standard material: HDPE
Available upgrade: Stainless Steel or Nitrophyll
L Gauge (Type L)

GAUGE INFORMATION

Top Mount Low Profile Mechanical Liquid Level Gauge

- 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

Optional Bushings/Flanges:

1 5/16” aluminum 5 hole bolt on flange

1 5/16” steel flange (CRS) for welding or soldering level monitor to tank

Custom bushing allows for installation of the liquid level monitor on your tank with no need for a threaded fitting. Requires a 1.65" hole.

Upgrades and Add-on Accessories

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Add-on</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Lock Nut</td>
<td>ALN</td>
</tr>
<tr>
<td>Viton Gasket</td>
<td>VTN</td>
</tr>
<tr>
<td>Nitrophyll Float</td>
<td>NTF</td>
</tr>
<tr>
<td>Stainless Steel Float</td>
<td>SSF</td>
</tr>
<tr>
<td>Aluminum Guard</td>
<td>ALG</td>
</tr>
</tbody>
</table>
GFK Gauge (Type GFK)

PICTURE AND COMPONENT EXPLANATION

Top Mount All Metal Mechanical Liquid Level Gauge

**Locknut:**
Red plastic locking nut tightens the calibration and the gauge to the bushing.
Standard material: Aluminum

**Calibration:**
Contains the 1/4 increments reading.
Standard material: Zinc Alloy

**Gasket:**
Seals the gauge to the bushing.
Standard material: Duro Nitrile
Available upgrade: Viton

**Bushing:**
NPT male fitting that threads into your tank’s female fitting.
Standard material: Aluminum

**Rod:**
Mobile rod inside the tank, moves the red indicator.
Standard material: Aluminum
Available upgrade: Stainless Steel

**Float:**
Attached to the rod inside the tank. Floats on top of the liquid.
Standard material: HDPE
Available upgrade: Stainless Steel or Nitrophyll
GFK Gauge (Type GFK)

GAUGE INFORMATION
Top Mount All Metal Mechanical Liquid Level Gauge

- 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

Optional Bushings/Flanges:

1 5/16” aluminum 5 hole bolt on flange

1 5/16” steel flange (CRS) for welding or soldering level monitor to tank

Custom bushing allows for installation of the liquid level monitor on your tank with no need for a threaded fitting. Requires a 1.65” hole.
Remote Reading Gauge (Type DU)

PICTURE AND COMPONENT EXPLANATION

Top Mount Mechanical Remote Reading Liquid Level Gauge

- **Calibration**: Aluminum
- **Calibration Base**: Aluminum
- **Tubing**: Copper with Stainless Steel Beaded Chain
- **Unions**: Brass
- **Bushing**: Aluminum
- **Float**: Poly Coated Cork
- **Rods**: Galvanized Steel with Brass Rivets
Remote Reading Gauge (Type DU)

GAUGE INFORMATION

Top Mount Mechanical Remote Reading Liquid Level Gauge

DU Gauge Applications:

- 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.

Underground Storage Tank

Aboveground Storage Tank
### Remote Reading Gauge (Type DU)

#### GAUGE INFORMATION

Top Mount Mechanical Remote Reading Liquid Level Gauge

#### Replacement Parts

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calibration Only</td>
<td>DU-CAL</td>
</tr>
<tr>
<td>Complete Calibration Unit</td>
<td>DU-CALALL</td>
</tr>
<tr>
<td>Couplings</td>
<td>DU-Couplings</td>
</tr>
<tr>
<td>Pipe Nipple</td>
<td>DU-PIPE</td>
</tr>
<tr>
<td>2” Bushing</td>
<td>DU-2B</td>
</tr>
<tr>
<td>Float</td>
<td>DU-FLT</td>
</tr>
<tr>
<td>Wall Bracket and Screws</td>
<td>DU-WALL</td>
</tr>
<tr>
<td>Copper Tubing</td>
<td>DU-TUB</td>
</tr>
<tr>
<td>Stainless Steel Beaded Chain</td>
<td>DU-SSC</td>
</tr>
</tbody>
</table>
ACU Gauge Tank Mounted Unit

- Vertical Float Type Sensing Device good up to 60 inches.
- Unit is enclosed in a weather/water resistant housing.
- Standard auxiliary output jack with gold plated connections.
- Display has a push button activation with a battery saving automatic shut off.
- Powered by a 9 volt lithium battery. Can also be powered by the remote unit.

ACU Gauge Tank Mounted Unit Options

<table>
<thead>
<tr>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACU Gauge with Display</td>
</tr>
<tr>
<td>ACU Gauge without Display</td>
</tr>
<tr>
<td>This option is sometimes used when purchasing the remote display unit</td>
</tr>
</tbody>
</table>

ACU Gauge Remote Display Option

- Remote capability. Wired Range over 100 feet.
- Display comes standard with high and low level alarms.
- Standard with wall cube power or 9 volt lithium batteries.

ACU Gauge Remote Display Options

<table>
<thead>
<tr>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACU Gauge Remote Display Unit</td>
</tr>
<tr>
<td>ACU Gauge Remote Display Unit with 4-20 Milliamp Output</td>
</tr>
<tr>
<td>Extra Cable</td>
</tr>
</tbody>
</table>
LED At-A-Glance® Remote Display

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.

Features:
- Quick and Easy Install
- Suitable for both inside or outside tanks
- Connects using a 3 wire cable
- Yellow LED will illuminate if any fault to the system occurs
- Powered by a 9V battery—change after 1 year of use
- Display can be located anywhere within 100ft of the Transmitter
- Hi or Lo Level adjustable 90-100 DB alarms triggered by a magnetic switch (can also be disabled)

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

LED At-A-Glance®:
Part Number: LED AAG
Includes 25 feet of cable

Additional Cable Available
## Alarms

**At-A-Glance® Alarms**  
- Compatible with Krueger Sentry Gauges: Type D, Type H, Type B, Type PH, Type PD, Type O, and Type K.  
- Powered by a 9 volt Lithium Battery and a test switch allows you to test the battery before each use.  
- Magnetic Switch triggers a 110 DB Alarm and can be reset while in alarm mode.

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounts directly to the gauge.</td>
<td>Remotely mounted for remote access.</td>
</tr>
<tr>
<td>Comes with:</td>
<td>Comes with:</td>
</tr>
<tr>
<td>9 volt Lithium Battery,</td>
<td>25’ of cable including connectors</td>
</tr>
<tr>
<td>Magnetic Indicator and</td>
<td>9 volt Lithium Battery,</td>
</tr>
<tr>
<td>Installation guide.</td>
<td>Magnetic Indicator and</td>
</tr>
<tr>
<td></td>
<td>Installation guide.</td>
</tr>
</tbody>
</table>

**At-A-Glance® Direct Mount Alarm**  
- Mounts directly to the gauge.  
- Comes with:  
  - 9 volt Lithium Battery,  
  - Magnetic Indicator and Installation guide.

**At-A-Glance® Remote Mount Alarm**  
- Remotely mounted for remote access.  
- Comes with:  
  - 25’ of cable including connectors  
  - 9 volt Lithium Battery,  
  - Magnetic Indicator and Installation guide.

---

**Direct Mount Alarm**  
Part Number: DAlarm

**Remote Mount Alarm**  
Part Number: RAlarm
Below are upgrades that can be added to the direct mount alarm and remote mount alarm. Part number, price and description for each option are stated in the charts. All alarms come with: a 9 volt lithium battery, a magnetic indicator, installation instructions, and the options stated below.

### Direct Mount Alarm Options

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAlarm-FL</td>
<td>With this model, the audible alarm is replaced with a flashing light. The flashing light will alert when triggered by the magnetic indicator on the gauge and continue until reset.</td>
</tr>
<tr>
<td>DAlarm-FL-TO</td>
<td>With this model, there is an audible alarm with an added flashing light and time-out feature. The flashing light will alert when triggered by the magnetic indicator on the gauge. The time-out feature will shut down the alarm after 20 seconds to save on battery life.</td>
</tr>
</tbody>
</table>

### Remote Mount Alarm Options

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAlarm-FL</td>
<td>With this model, the audible alarm is replaced with a flashing light. The flashing light will alert when triggered by the magnetic indicator on the gauge and continue until reset. This includes 25 feet of cable to allow for remote access.</td>
</tr>
<tr>
<td>RAlarm-FL-TO</td>
<td>With this model, there is an audible alarm with an added flashing light and time-out feature. The flashing light will alert when triggered by the magnetic indicator on the gauge. The time-out feature will shut down the alarm after 20 seconds to save on battery life. This includes 25 feet of cable to allow for remote access.</td>
</tr>
</tbody>
</table>

**General Information about the Alarms:**
- Audible Alarm = 110 db
- Powered by 9 volt lithium battery with approximate life of 3 to 10 years
- Weather resistant, semi water proof (cannot be submerged)
- Tested 0° to 60° Celsius, 32° to 140° Fahrenheit
- Third party tested
- Alarm is intrinsically safe

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 and RAlarm-GG for Remote Mount Alarm. No price change.
Alarm with Dry Contacts

With this model, the audible alarm is replaced with a set of dry contacts. The dry contacts are not designed to power anything. These contacts can then be used to trigger a switch on your own system, thus turning a pump on or off, triggering your own alarm.

### Direct Mount Alarm Options

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAlarm-DC-FL</td>
<td>Standard dry contacts option with flashing light.</td>
</tr>
<tr>
<td>DAlarm-DC-FL-TO</td>
<td>With this model, there is an audible alarm with an added set of dry contacts, flashing light and time-out feature. This allows you to use the dry contacts while having a visual and audible application.</td>
</tr>
</tbody>
</table>

### Remote Mount Alarm Options

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAlarm-DC-FL</td>
<td>Standard dry contacts option with flashing light. This includes 25 feet of cable to allow for remote access.</td>
</tr>
<tr>
<td>RAlarm-DC-FL-TO</td>
<td>With this model, there is an audible alarm with an added set of dry contacts, flashing light and time-out feature. This allows you to use the dry contacts while having a visual and audible application. This includes 25 feet of cable to allow for remote access.</td>
</tr>
</tbody>
</table>

### Technical Specifications

- **Powered by 9 volt lithium battery.**
  - A. Dry contacts can handle up to 2 amps of resistive or inductive load.
  - B. 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.
  - C. 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.

### Relay Switch

- **Relay Switch** is not included but we can supply.
  - Relay switch, good to 1/2 horsepower motor.
  - The blue wires are the contact connection. This is where you connect our (A) Dry Contacts.
  - The output wires connect to your device, and the wiring diagram will explain either normally open contacts or normally closed contacts setup.
  - On this relay switch Black and Red would be normally open, and Black and Brown would be normally closed.
  - Part Number: Relay Switch
Piping Level

These Piping Levels were crafted by two retired UA Members. The levels have been tried and proven to be a real time saver for aligning tees, 90’s, etc. Works well for welding in stubs using various nipples, bushings, or reducing couplings. With reasonable care these levels should last a Lifetime. If a thread becomes damaged, just re-tap it or run the thread over with a die.

- Made of 6061 grade aluminum bar anodized.
- Level has a 1/2” female pipe thread inside on end and a 1” male pipe thread outside on the same end
- Opposite end has an eye bolt for a plumb bob line
- Level is about 4” long with a diameter of 1.25”

Part Number: PLevel
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.

**Accessories: Abbreviations and Definitions**

- Add SSR to part number: Stainless Steel Rods
- Add SSF to part number: Stainless Steel Floats
- Add All SS 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 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

KRUEGER SENTRY GAUGE CO. INC. Phone: (920) 434-8860 Fax: (920) 434-8897 website: http://www.ksentry.com
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 please see our order help on our website: http://www.ksentry.com/ordhelp.htm and if that doesn’t help, contact us or you can fax 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 204 to discuss requirements. http://www.ksentry.com/repsearch.php

→ If you would like to list KSG parts on your website please contact Lee at extension 204 for pictures and information.

→ Product PDF files are available upon request or on our website: http://www.ksentry.com/products.htm

→ Visit our blog (http://ksentry.com/blog/) for updates on products, literature, employees, and the Green Bay Packers.