

ELECTRIC GEN II



KIMRAY
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ELECTRIC GEN II

INTRODUCTION

Continuing our push to have the most complete line of level control, Kimray has developed a no emissions electronic level controller. The E-Series Gen II is an electronic level controller with an adjustable snap span. With a wide variety of displacers available, the Electric Gen II will work in most environments. Paired with our Electro-Hydraulics Valve Actuator, your level control installation becomes emissions free.

OPERATING PRINCIPLE

The GEN II Electronic Back Mount Liquid Level Controller consists of a displacer for monitoring the changing liquid level, a spring for counterbalancing the weight of the displacer, a waggle arm to transmit displacer movement, a back plate upon which the controller mechanism is mounted, a link a tangent arm for setting the pilot sensitivity, a snap range adjusting knob for setting liquid level spans, and 2 Namor Sensors.

As the vessel liquid rises to partially submerge the displacer, the displaced volume of liquid causes the counterbalance spring to exert a downward force at the end of the waggle arm housing. The resulting downward movement of the link moves the tangent arm upward toward the top level sensor until the top level sensor activates.

As the vessel liquid lowers, the displacer compresses the counterbalance spring. The waggle arm transmits the action through the linkage to the tangent arm. The tangent arm continues to move until the snap sensor activates.

The snap range adjusting knob can be turned to increase or decrease the snap range from 2" to 9" in water. Turning the knob clockwise will increase the snap range. The sensor leads are wired to a Class I Div 2 IS barrier for output to a controller such as a RTU, PLC, etc.



BENEFITS

- Compact design for tight installations
- Easy to operate adjustment knob for setting the snap range (patent pending)
- Multiple displacer options for a variety of harsh conditions
- Conditional NACE MR0175 Wetted Parts



SPECIFICATIONS

Max. Pressure	4000 PSI
Temperature	PVC Displacer (Std.) (4000 psi, 175°F) 316 SS Displacer (1500 psi, 350°F)
Power Specs	10-30 VDC, $\leq 1.5W$ (Intrinsically Safe Barrier, Class I Div 2) Barrier output Relay Contacts: $\leq 2A @ 250 VAC / 120 VDC$
Min. Specific Gravity	0.2 with standard displacer 0.1 with optional displacer

WHO WE ARE

Kimray designs and manufactures oil and gas control products. Based on more than 65 years of pioneering product development, we provide products and services that are reliable, smart and inventive. We generate meaningful solutions by staying curious and engaging in customers' needs. Our product ideas are fueled by a deep desire to make a difference that is both personal and unique to the customer.

We have made it our life's work to provide products and services that are positively impactful. Through the years, this pursuit has built strong relationships. Our customers have known that buying from Kimray is about much more than the product. The relationships between Kimray representatives and our customers extend from before the sale through the life of the product. Those relationships, along with quality Kimray products, are the result of a company striving for excellence for our customers, our company and our community.

Visit Kimray.com to learn more about our company and the products we create.



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