

Series 6200 Liquid Level Switches

Eldridge Products, Inc. produces a wide variety of thermal instrumentation. Built with over twenty-five years experience in instrumentation design and production, our thermal level switches have earned a reputation for superior quality, dependability, ease of use, and durability in real world applications. Our Series 6200 level switches are CE, CSA, and CENELEC approved for use in hazardous locations.



All of EPI's level switches have two single-pole, double-throw relays for Hi/Hi, Lo/Lo and Hi/Lo level capability. The contact closure is 5 amps @ 24 VDC and 115 VAC.

Two LEDs are provided for verification that the Hi or Lo alarm has been triggered. The standard configuration has 316 Stainless Steel wetted parts (Hastelloy & Monel are also available) for a rugged, cleanable instrument designed for use in applications where corrosion, abrasion, high pressure or rough handling may be expected.

EPI's Level Technology

Thermal liquid level switches are solid state instruments that use the principle of convective heat transfer. EPI™'s sensors consist of two resistance temperature detectors (RTDs). A forced null, Wheatstone bridge preferentially heats one RTD; the other RTD acts as the temperature reference. The process liquid

dissipates heat from the first RTD, causing an increase in the power required to maintain a balance between the RTDs. This increased power demand causes the relay to energize. In the absence of the liquid, the relay resets. A trip response time delay of one half to thirty seconds is available as standard with automatic reset in one second.

Installation Options

The Insertion style liquid level switch includes a sensor probe assembly which is inserted into the flow conduit to allow the process liquid come into contact with the level sensors. The insertion style probe assemblies may be inserted into any suitable section of pipe, container, tank, etc.

Insertion switches are available with 1/2", 3/4", or 1" OD probes and may be installed with pipe fitting connections or user-supplied bored through tube fittings. Tube fittings and ball valve retractor assemblies, with or without a mounting flange, are also available from the factory as options. The tube length must be specified upon ordering. Standard lengths range from a minimum of 6" to a maximum of 36". For other probe diameters and lengths, please consult the factory.



Specifications

Trip point accuracy.....	± 0.25"
Sensor trip time	0.5 second typical
Sensor reset time	1.0 second typical
Electronics temperature range.....	0°–50°C (32°–122°F), extended temperature optional
Pressure rating maximum	500 PSI Std., > 500 PSI special
Input power requirement	24 VDC @ 250mA 115 VAC 50/60 Hz optional 230 VAC 50/60 Hz optional
Flow Transmitter power requirements	5 Watts maximum
Flow Transmitter enclosure	Series 6200 (approved instrument) NEMA 4X, Class 1, Div 1, Groups B, C, & D, Std. Series 6200NH (no approvals) NEMA 4X ABS plastic with clear polycarbonate cover (5" x 5" x 4")
Wetted materials	316 Stainless Steel (Hastelloy and Monel optional)

Approvals



SPECIFICATION NOTICE

The specifications contained herein are subject to change without notice. *EPI* cannot guarantee the applicability or suitability of our products in all situations since it is impossible to anticipate or control every condition under which our products and specifications may be used.

LIMITED WARRANTY

EPI warrants its products to be free from defects in materials and workmanship for one year from the date of factory shipment. If there is a defect, the purchaser must notify EPI of the defect within the warranty period. Upon receipt of the defective product, EPI will either repair or replace the defective product at its sole option. EPI MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AS TO THE PRODUCTS. EPI MAKES NO WARRANTY THAT THE GOODS SOLD TO ANY PURCHASER ARE FIT FOR ANY PARTICULAR PURPOSE. FURTHERMORE, EPI MAKES NO WARRANTY OF MERCHANTABILITY WITH RESPECT TO ANY PRODUCTS SOLD TO ANY PURCHASERS. There are no other warranties that extend beyond the description on any brochure or price quote.

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