

HIGH PERFORMANCE SWITCH TECHNOLOGY FOR PUMPS

LevelGuardTM Pump Controls from TouchSensorTM introduce Field-Effect sensing technology to reliably detect the presence of water without the use of any moving parts or need for direct fluid contact. Replacing mechanical float switches, LevelGuard Home Sump Controls offer solid-state, extremely reliable, residential sump pump switching for pump and plumbing applications.

Field-Effect sensors create a low-power, invisible field that has the unique ability to detect fluid through non-conductive barrier materials such as plastic or glass. When a conductive substance like water

enters the LevelGuard field, the sensor detects its presence, determines its state, and activates the pump if needed. LevelGuard technology is appropriate for use in sump, lift station, irrigation, underground vault, wet-well and storm water fluid management applications.

LevelGuard Home Sump Controls improve switch performance to the point the sump pump switch becomes the most reliable element of the sump pump control system. With more than 10% of all basements in the U.S. reporting foundation water leakage, it is imperative for home-owners to know that their sump pump system is performing at its peak operating capacity.

The MSRP of the LevelGuard Home Sump Control is \$115, with an additional system savings available to installers if applied as recommended. Both LevelGuard Home Sump Pump Controls and its patented Field-Effect sensing technology



are Underwriters Laboratories listed. Since its introduction in 1997, Field-Effect sensing technology has been used in appliance, automotive, fitness and many other industry applications. LevelGuard is accompanied by a five (5) year limited warranty. Please visit www.LevelGuardProducts.com to learn more.



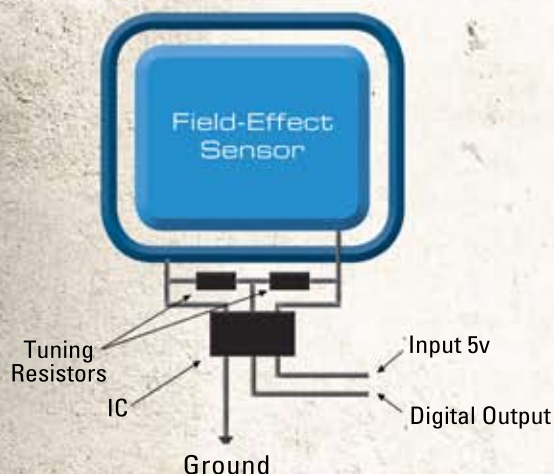
- **UNMATCHED RELIABILITY.** Solid-state electronic design means less chance for problems.
- **SAFETY PROTECTION.** Includes fused over-current protection against pump electrical failures.
- **DEPENDABLE PERFORMANCE.** UL listed, life cycle tested, validated to last.
- **HIGHLY RESISTANT MATERIALS.** Stands up to foreign contaminants and deters mineral build-up.
- **LOW INSTALLED COST.** Quick installation offers system level cost savings.
- **OUTLASTS FLOAT SWITCHES.** Beats conventional switches 7 to 1 in comparative testing.

INTRODUCING FIELD-EFFECT SENSING TECHNOLOGY FOR NON-CONTACT FLUID LEVEL DETECTION

SWITCH THE SPEC TO FIELD-EFFECT

Field-Effect sensors are digital, solid-state electronic devices that can detect conductive materials such as water or the human touch. The sensor's patented cell design uses an integrated circuit (IC) that switches its output state when the conductive target is sensed.

A TouchSensor™ Field-Effect cell is comprised of three main elements, the IC, a unique sensing electrode geometry, and two tuning resistors. Moreover, Field-Effect requires no moving parts, floats, software, or any other mechanism to operate.



TECHNICAL SPECIFICATIONS

DIMENSIONS (W X D X H)

LevelGuard Z24802PTZ	2.2" x 0.8" x 9.3"
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WEIGHTS

LevelGuard	1.7 lbs.
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POWER SPECIFICATIONS

AC Input	120v, 60Hz (single phase only)
Load Rating	12 Amps Continuous
Fused Protection	15 Amps
Operating Current	1.3 milliamps

POWER CORD

SJTOW/14 Gauge	8 feet
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MOUNTING STRAPS

Polypropylene Straps	5 each
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AGENCY CERTIFICATIONS

UL Listed (U.S. & Canada)	File # E332036
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PATENTS

Field-Effect Sensor/LevelGuard	U.S. Patent Nos. 5594222, 6310611, 6320282 7373817
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PERFORMANCE SPECIFICATIONS

DIFFERENTIAL FLUID CONTROL RANGE

LevelGuard Z24802PTZ	6.7 inches (170 mm)
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OPERATING TEMPERATURE RANGES

Ambient	32° to 122° F (0° to 50°C)
Liquid	32° to 122° F (0° to 50°C)
Storage	-40° to 185° F (-40° to 85°C)

WARRANTY

Limited	5 years
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HOUSING

Material	Plastic
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SERVICE LIFE

Cycles	1.5 million
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DESIGNATIONS

LevelGuard Home Sump Pump Controls are designated for use in residential and commercial plumbing applications

COMPATIBLE FLUID TYPES

Aqueous solutions, potable water, ground water, wastewater

TouchSensor Technologies, LLC is a wholly-owned subsidiary of Methode Electronics: TouchSensor engineers and manufactures Field-Effect sensors for appliance, exercise equipment, medical, automotive, marine and RV markets. Since 1997, TouchSensor has delivered nearly 200 million Field-Effect cells for use in the markets it serves. Visit www.TouchSensor.com to learn more.

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