

# Legacy Products Cross-Over

With the **NEW** ULS-100 Universal Level Sensor

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The following outlines legacy products that the new ULS-100 Universal Level Sensor may replace. Please review all known application specifications prior to switching to the ULS-100. In certain applications, remaining with the existing legacy product may be the best option due to application specifics including but not limited to temperature, pressure, or approvals to name a few.

## Key Benefits and Features of the ULS-100

The solid-state point-level sensor was developed for aqueous, oil and hydrocarbon applications. Universal Level technology encapsulates the best of what existing sensor types offer in a single sensor technology.

- **Compact**  
The Universal Level Sensor's small footprint and less intrusive flush sensing element for maximum flexibility
- **Reliable**  
Accurate and repeatable point-level detection using advanced sensing technology with electronic solid state switching
- **Durable**  
Universal Level can withstand harsh conditions and outdoor environments with IP6k9k rating, wide temperature range, and high-pressure capability
- **Versatile**  
Mount the ULS-100 at nearly any angle and configure with a built-in time delay to fit your application
- **One Sensor Solution**  
Reduces inventory and simplifies product selection by replacing several different sensor types with the Universal Level Sensor for aqueous, oil, and hydrocarbon based media

- Does Not Support
- ◐ Somewhat Supports
- ◑ Mostly Supports
- Fully Supports



		FLOAT-TYPE	CAPACITIVE	ELECTRO-OPTIC	ULTRASONIC	UNIVERSAL LEVEL SENSOR	
SENSOR ATTRIBUTES	MEDIA DETECTED	Aqueous	●	●	●	●	
		Hydrocarbon	●	◐	●	●	●
		Low Dielectric	●	○	●	●	●
	ENVIRONMENTAL	High Humidity	●	●	◐	◑	●
		High Pressure	●	●	●	●	●
		High Reflection	●	●	◐	●	●
		High Viscous	○	●	◑	◑	●
	SPECIAL CONSIDERATION	Limited Bubbles Effect	◑	◑	◐	◑	●
		Works In Foam	◑	◑	◑	◑	●
Build-Up Prevention		◐	●	◑	◑	●	

## CAP-300 Series Capacitive Level Sensor



PROS	CONS
<ul style="list-style-type: none"> <li>▪ Five thread sizes</li> <li>▪ Three electrical connection options</li> <li>▪ Almost any mounting orientation</li> <li>▪ Under 3" overall length</li> </ul>	<ul style="list-style-type: none"> <li>▪ Only senses water-based media</li> <li>▪ Low maximum pressure @ 100 PSI</li> <li>▪ Not as reliable with bubbles or foam</li> <li>▪ Moderate intrusion of probe inside tank</li> <li>▪ No time delay</li> </ul>

## ELS-1150 Series Electro-Optic Level Sensor



PROS	CONS
<ul style="list-style-type: none"> <li>▪ Nickel plated or 316L stainless steel construction</li> <li>▪ Minimal intrusion of prism inside tank</li> <li>▪ Under 2" overall length</li> <li>▪ Wide temperature and pressure range</li> </ul>	<ul style="list-style-type: none"> <li>▪ Very limited to environmental and conditional factors</li> <li>▪ Glass prism</li> <li>▪ Limited mounting orientation</li> <li>▪ Two thread sizes</li> <li>▪ Only flying leads or cable options</li> <li>▪ No time delay</li> </ul>

## XLS-1 Series Ultrasonic Level Sensor



PROS	CONS
<ul style="list-style-type: none"> <li>▪ Six thread sizes</li> <li>▪ All 316L stainless steel body and probe</li> <li>▪ Approximately 3" overall length</li> <li>▪ Integral electrical connections</li> </ul>	<ul style="list-style-type: none"> <li>▪ Limited mounting orientation</li> <li>▪ Lower maximum pressure @ 250 PSI</li> <li>▪ Intrusive sensing probe</li> <li>▪ Limited to environmental and conditional factors</li> <li>▪ No time delay</li> </ul>

## LS-7 Series Float Level Switch



PROS	CONS
<ul style="list-style-type: none"> <li>▪ Low cost</li> <li>▪ Many mounting types &amp; thread sizes</li> <li>▪ Many plastic and alloy materials available</li> </ul>	<ul style="list-style-type: none"> <li>▪ Limited mounting orientation</li> <li>▪ Relies on specific gravity of liquid</li> <li>▪ Reed switch and mechanical parts prone to wear</li> <li>▪ Intrusive float and stem inside tank</li> <li>▪ No time delay</li> </ul>