

Product Highlights

Barksdale Level Switches
Controlling HPU Reservoir Fluid Level



At the core of every hydraulic power unit (HPU) is the reservoir, which holds the hydraulic fluid. Controlling fluid level and temperature in the reservoir is critical to efficient operation. Elevated temperatures can result in fluid degradation, loss of lubrication and destroyed seals. Low fluid level can contribute to damaged pumps and cavitation – a condition that erodes metal surfaces within the system and negatively impacts performance.

A common way to control fluid level and temperature in the reservoir is to use a top-mounted level switch with an integrated temperature switch. Barksdale’s UNS1000 level/temperature switch is available with a variety of different mounting threads, eliminating the need for a junction box and

conduit connection. One manufacturer switched to the UNS1000 and, by eliminating the junction box and conduit connection, experienced cost savings, less complexity and less potential leakage points.

Available as a multi-stage switch (up to 5 independent switch points), the UNS1000 can be configured normally open or normally closed. It features hermetically sealed reed switches and is suitable for high viscosity hydraulic fluids. A DIN style connector is available, making it IP67 compliant.

The UNS1000 can be used to actuate a light to alarm the operator; in conjunction with a PLC it can be used to start/stop pumps, fans or other devices.



Did you know...
In addition to level switches for HPU’s, Barksdale offers a range of level switches for other applications, in many different configurations: single switch point, or multi-stage; from one inch in length to over nine feet; materials that offer broad media compatibility and switches that are configurable to normally open or normally closed.

For more information, go to www.barksdale.com and look for level switches in our product section.

NEED	FEATURE	BENEFIT
Reduce potential leakage points	Level switch with integrated temperature switch	Eliminate extra tap for temperature switch
Ability to actuate at multiple fluid levels	Up to 5 independent switch points on UNS1000	Start/stop devices at multiple switch points
Reduce system cost/complexity	Simple, dependable mechanical float switch	Low-cost, reliability, easy “set and forget”