

DIGITAL LEVEL SENSORS (DLS) RU Flex with High-Level Shut-In



Five measurements in one world-class device: Product and interface level, temperature, high- and high-high level overflow protection

Electrolab's RU FLeX with integrated High-Level Shut-In (HLS) offers the convenience and installation ease of the standard RU Flex DLS with added safety monitoring for high-level alarm and shut-in. The sensor offers two distinct circuits, one for continuous level and temperature measurement and a second, independent circuit, for high-level alarm and shut-in.

The high-level alarm and shut-in circuit requires no power and, unlike some other sensors, is not affected by power outages. This circuit continuously monitors for tank overflow conditions. An integrated test device allows for required testing of the high-level shut-in feature at any time and provides the added safety benefit of not having to open the tank hatch. A stainless steel cable attached to the third (high-level) float provides a mechanism to manually raise the float and trigger the high-level alarm.

The RU Flex HLS design anchors the electronics and the High-Level Shut-In apparatus at the top of the sensor to ensure the most reliable and accurate operation in changing tank environments. The HLS apparatus ships retracted to protect the apparatus and the HLS float (see photo inset). When extended just prior to installation, the apparatus is preset to the proper position for the HLS float, eliminating any need for field adjustments.

OPERATING ENVIRONMENT

Length: 15 - 48 feet
Operating Temperature: -40 to 75°C
Tank Pressure: 15 psi
Maximum Production Volume: ~ 800 bbls/day
BTX: <20% concentration
H₂S: <2.5%
Stilling Wells: 6-inch diameter and greater

