

Invasive Point Level System

Description

The Ultrasonic Point Level System 4160 Series is an ideal solution for detecting liquid in compact spaces. With integrated electronics it is a direct replacement for Float Switches, Capacitance and Optical Detectors. The GS 4160 detects liquid irrespective of change in density color, dielectric constant or viscosity. The GS 4160 does not require calibration or periodic maintenance. The sensor is constructed in 316 SS and is available in lengths of up to 99". ECHO can provide the GS 4160 in a variety of engineered plastics to obtain the ideal corrosion resistance in process vessels.

Operation

The GS 4160 Series unit consists of two piezoelectric elements mounted between the forks where the presence and absence of liquid is detected. These elements convert electrical energy to mechanical energy in the form of ultrasonic signal detecting the presence of liquid. The ultrasonic signal is attenuated with no liquid present and passes freely across the gap when liquid is present. The Solid State Closed Loop circuit detects the presence and absence of the ultrasonic signal.

A cost effective reliable solution!

Designed to meet intrinsic safety for Hazardous locations. UL Approval pending.

Applications

High Level / Overflow Alarm
Low Level / Pump protection
Condensate pots
Sump Water / Oil Detection
Lubricant circulation equipment
Fill machine level control
Pump leak detection

Industries Served

Upstream Oil & Gas
Midstream Oil & Gas
Petrochemical / Chemical
Water / Waste-water
Maritime Shipping
Pulp & Paper
Food / Beverage
Military: Subsea – Surface

ECHO Process Instrumentation, Inc.®

PO Box 800, Shalimar, FL 32579 USA Phone: 850-609-1300 Fax: 850-651-4777

Email: info@echopi.com Website: www.echopi.com

