



RF Capacitance Level Switch



NIVOLARM

ALC 810

ALC 830

ALC 860

Features

- Offered with a wide range of probes
- Compact Design
- Universal Power supply
- Field selectable fail-safe operation
- Conforms to International Standards
- Remote monitoring



RF Capacitance Level Switch

The RF Capacitance level switch provides accurate and reliable detection of conducting as well as non-conducting liquids, solids or slurries, stored in open or closed containers. It can also detect the level of material flowing in closed pipes, open channels or moving on conveyor belts. The performance of the instrument is independent of properties like conductivity and corrosiveness and of process parameters such as temperature and pressure.

The instrument works on the field proven RF Technology. A RF signal is applied to the probe and the tank (reference). A change in the level results in a change in the admittance between the probe and the tank. This change is detected by the electronics and an alarm generated.

Offered with a wide range of probes

Ensures compatibility with a large number of applications.

Compact Design

Suitable for installation in restricted spaces.

Universal Power supply

Accepts any voltage from 85 Vac to 265 Vac.

Field selectable fail-safe operation

Offers reliable detection of high and low level

Conforms to International Standards

Designed to meet global requirements and available with international approvals.

Remote monitoring

Easy monitoring of the process even in hard to reach places.

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Compact

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General Purpose

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Intelligent



Technical Specifications

Mains Supply	: 85 Vac to 265 Vac, 50/60 Hz,
Option	: 18 Vdc to 30 Vdc
Outputs	: LED, Relay, Open Collector
Time Delay	: 2 to 30 seconds adjustable
Process Pressure	: 10 bar max
Option	: 24 bar max
Process Temperature	: 80°C max.
Option	: +450°C max.
Ambient Temperature	: -20°C to +60°C
Housing	: Cast Aluminum
Max. Insertion Length	: Rod Probe : 3,500 mm
	: Rope Probe : 20,000 mm
Protection	: IP67
Option	: Ex-proof Protection EEx ib IIB T4

Product Range

A wide range of converters are available to suit the specific customer needs.

Compact Model

For OEM's and for installation in restricted spaces. The electronics is enclosed in a compact housing and integrated with the probe into a single mechanical unit.

General Purpose Model

Simple to use, having all the essential features. Suitable for most of the typical applications.

Intelligent Model

Microcontroller based instruments incorporating all the features of the general purpose instrument and offering additional confidence in the output signal with built-in diagnostics.

Operation in Hazardous Locations

The instruments are also available with Intrinsically safe electronics or Explosion proof housings for use in potentially explosive environments.

Sanitary Version

Available with sanitary connections and stainless steel construction for use in hygienic applications in the Food, Beverage and Pharmaceutical Industries.

A variety of rod and rope probes are available for optimal suitability with the following applications.

- Corrosive
- High Temperature and Pressure
- Vacuum
- Applications with build-up
- Sanitary Applications
- Materials with low dielectric constant



Nivo RF Capacitance Level Switches provides trouble free sensing of

Liquids

- Water
- Acids
- Juices
- Alkalis
- Oils

Slurries

- Coal Slurry
- Sugar Syrup
- Ore Slurry

Pastes

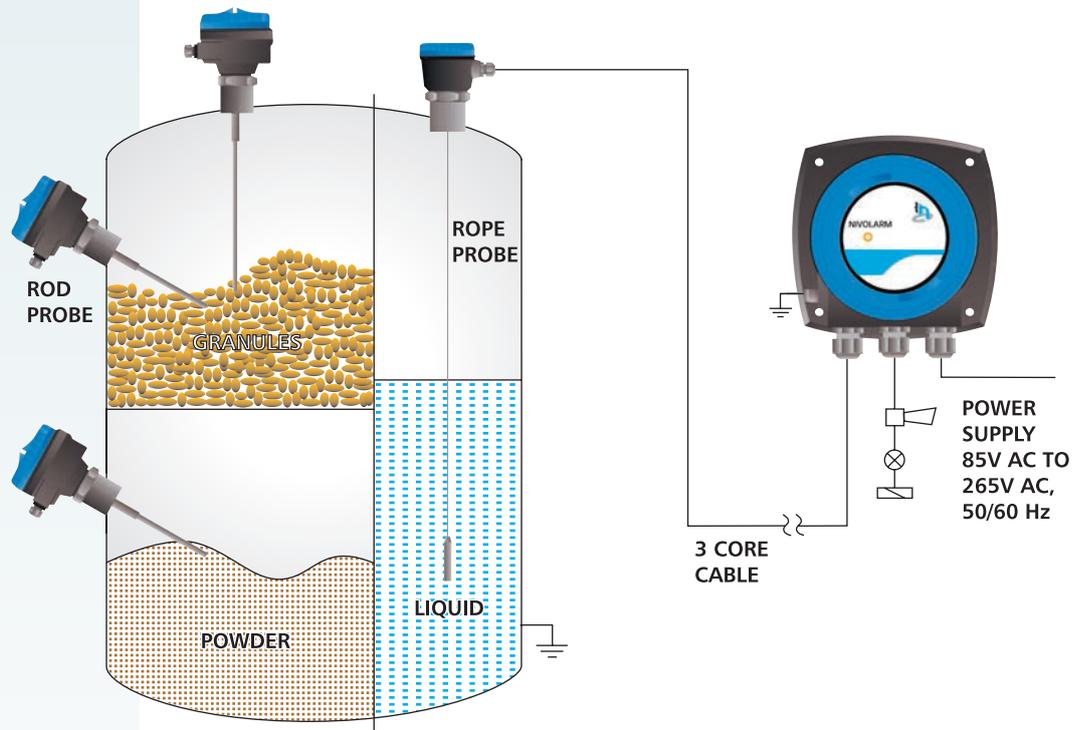
- Fruit Pulp
- Gum
- Chocolate
- Molasses

Dry Powders

- Cement
- Fly ash
- Coffee powder
- Milk powder
- Chemicals

Solids

- Food Grains
- Fertilisers
- Sugar Crystals
- Coal
- Limestone
- And many more!



We reserve the right to modify the technical data without prior notice.



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