

# RF Capacitance Level Transmitter



## NIVOMETER

MLC 860

### Features

- Integrated Digital Display
- Built-in Diagnostics
- Configurable relay operation
- Conforms to International Standards
- Operation in difficult applications



# RF Capacitance Level Transmitter

The RF Capacitance level transmitter is ideally suited for level measurement of liquids and can be used with slurries under certain conditions. The material may be stored in open containers or in pressurised tanks. The performance of the instrument is not affected by the properties of the material such as conductivity, corrosiveness and viscosity.

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 measured by the electronics and a corresponding output provided.

## Integrated Digital Display

Displays the level in user selectable units and provides bar graph indication.

## Built-in Diagnostics

Continuous self-monitoring and alarm in case of instrument failure.

## Configurable relay operation

Relays of the instrument can be configured to operate in either single set point, dual set point or pump control modes.

## Conforms to International Standards

Designed to meet global requirements and available with international approvals.

## Operation in difficult applications

Special probes for operation in difficult applications such as high pressure, high temperature and corrosive.

## NIVOMETER MLC 860



### Technical Specifications

Mains Supply	: 85 Vac to 265 Vac, 50/60 Hz, Option : 18 Vdc to 30 Vdc
Outputs	: 4-20 mA, LED, Relay
Display	: 16x2 Alphanumeric LCD
Time Delay	: 2 to 30 seconds adjustable
Process Pressure	: 10 bar max. Option : 24 bar max.
Process Temperature	: 80°C max. Option : 200°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 Ex ib IIB T4

## Product Range

These microcontroller based instruments provide greater user programmability and flexibility. They contain all the essential features and offer the added confidence in the output signal with continuous self monitoring. Available only in remote version.

## Operation in Hazardous Areas

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

## Probes

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

### **Rod Probes**

These probes are available in user specified lengths up to 3500 mm.

#### *Standard Applications*

A fully insulated rod probe is used for general purpose applications. The PTFE insulation is also corrosion resistant.

#### *Corrosive Applications*

For use in corrosive environments, instruments with housings and flanges made of corrosion resistant materials are available.

#### *Sanitary Applications*

For use in food, beverage and pharmaceutical industries, probes with sanitary fittings are available.

### **Rope Probes**

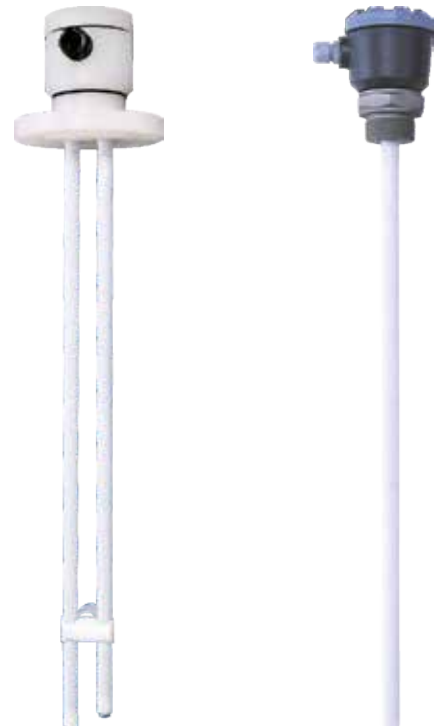
These probes are available in user specified lengths up to 20m.

#### *Standard Applications*

A fully insulated rope probe is used for general purpose applications.

#### *Corrosive Applications*

A fully insulated rope probe with the wetted parts constructed from suitable corrosion resistant material.



Nivo RF Capacitance Level Transmitter provides trouble free sensing of

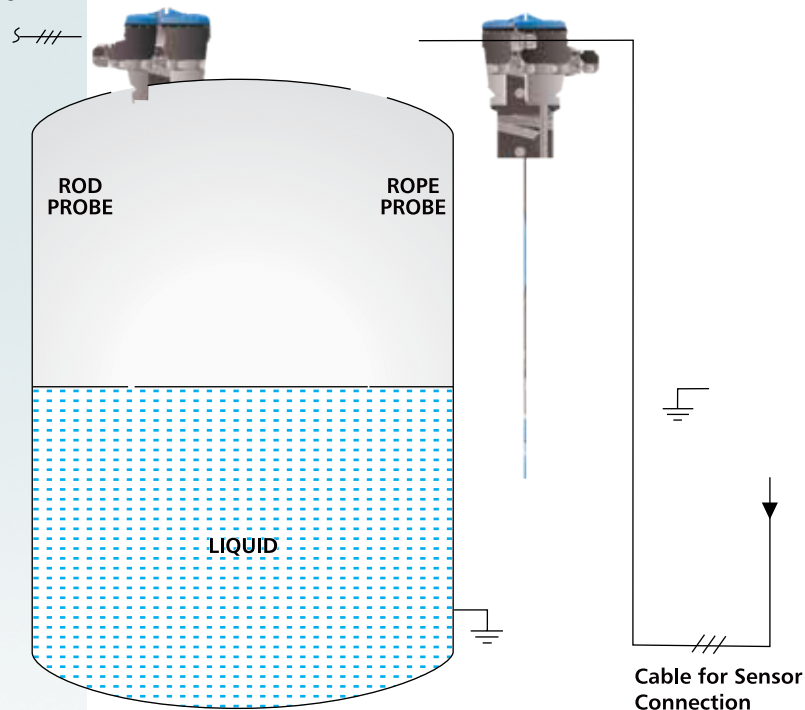
Raw Water  
Heavy Water  
Chilled Water  
Effluents  
Sewage

Oleic Acid  
Potassium Hydroxide  
Chemical Solutions  
Acetic Acid  
Phosphoric Acid

Edible Oil  
Diesel  
Methanol  
Beverages  
Juices

And many more!

For applications involving slurries and pastes, please consult the manufacturer.



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



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