

# **HiTECH**

Technologies, Inc.

## **NIVOCAP CAPACITANCE**

### **Two-Wire LEVEL TRANSMITTER**

## **Capacitance Sensing Technology**

Model CT-200

### **IDEAL for**

- ◆ Chemicals
- ◆ Food Processing
- ◆ Petro-chemicals
- ◆ Pharmaceuticals
- ◆ Power Plants
- ◆ Pulp & Paper
- ◆ Water & Wastewater



### **ADVANTAGES**

- Compact transmitter design  
- NEMA 6 housing
- Rigid rod probes  
- PFA, PE or FEP insulated  
- up to 10 feet long  
- mounting 1-1/2" NPT
- Flexible cable probes  
- Light or Heavy duty  
- Up to 66 feet long
- Simple installation and calibration  
4-key programming
- Lightning protection - built-in
- Intrinsic safe version (available)

**NIVOCAP CT-200** is **HiTECH's** Digital Two-Wire Capacitance Level Transmitter, the ideal device for general purpose level applications involving liquids or solids.

The **NivoCap™** measures level based on changes in the electrical capacitance between the sensing element and earth ground. The technology is applicable for either conductive or insulating materials, however, application consideration to both the equipment selected and the mounting configuration is required.

Its' wide measurement range and 1-1/2" NPT mounting make the **NivoCap™** well suited for many applications including; liquids, slurries, powders, and granulars, vaporous chemicals, viscose and/or corrosive materials, as well as processes involving high pressure, high temperature or vacuum.



**HiTECH Technologies, Inc.**

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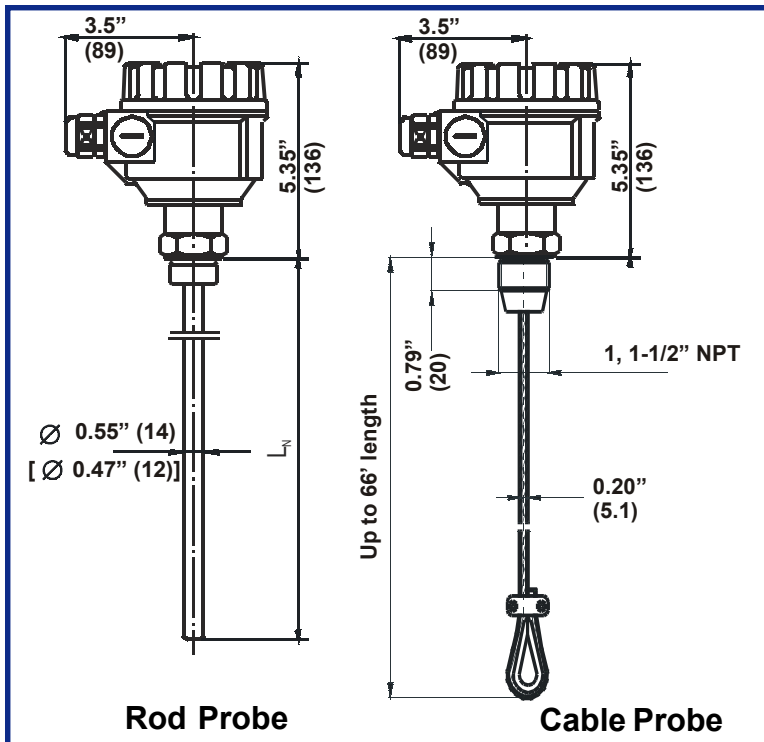
## NIVOCAP CAPACITANCE

### Two-Wire LEVEL TRANSMITTER

Model CT-200

#### SPECIFICATIONS

<b>Type</b> Capacitance Technology Two-Wire level transmitter	<b>Output</b> 4 to 20 mA Two-Wire HART (option)	<b>Operating Temperature</b> -22 to +266 °F Std. to +392 °F High Temp
<b>Measuring Range</b> 10 pf to 5000 pf Up to 66 feet	<b>Digital Display</b> SAP-200 (option)	<b>Temperature Coefficient</b> 0.02 % / °C
<b>Accuracy</b> 0.3% of Full Scale	<b>Operating Voltage</b> 12 to 36 VDC	<b>Process Pressure</b> max. 870 psi
<b>Linearity</b> < 0.5% of Full Scale	<b>Max Load Resistance</b> $R_{max} = \frac{(V_t - 12V)}{0.02A}$	<b>Materials of Construction</b> <b>Probe</b> PFA/316SS <b>Enclosure</b> Cast Aluminum NEMA 6
<b>Ambient Temperature</b> -13 to +158 °F		<b>Mounting</b> 1" or 1-1/2" NPT



#### PERFORMANCE GUARANTEE

Since 1986, every instrument sold by **HITECH** has been guaranteed to perform in the application it originally was engineered and recommended for. Our company policy remains the same, every product sold comes with a **written performance guarantee**.

Should the equipment be unable to perform satisfactorily in your application and we are not able to correct the problem, we will accept the instrument in return and issue full credit.

This performance guarantee is valid for 60 days. Thereafter, our standard limited two years factory warranty goes into effect.

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