

**Guided Microwave Sensing Technology**

**FLEX 50 SERIES**

**IDEAL for Liquid or Solids**

- ◆ **Chemicals**
- ◆ **Food & Beverages**
- ◆ **Minerals & Mining**
- ◆ **Petrochemicals**
- ◆ **Plastics**
- ◆ **Pulp & Paper**



**ADVANTAGES**

Measuring range up to 20 m

Up to 15 sensors via one two-wire line

4 ... 20 mA-two-wire sensors (loop powered)

Sensors with digital data transmission (VBUS)

Unaffected by product parameters such as:  
**density, conductivity, dielectric constant etc.**

Unaffected by application environment such as:  
**dust and noise generation, humidity change, varying medium, build-up, etc.**

Calibrate without changing the level  
**NO empty & fill required**

Low wiring costs using BUS systems

Calibrate from PC using software

Adjustable with HART® Handheld

**FLEX 50** series are the ideal solution for particularly difficult level measurements in liquids (e.g. waste, petrochemicals, solvents, chemicals, etc.) and solids (e.g. lime, cement, cereals, plastic granules, flour, gravel etc.).

Extremely short microwave pulses are guided down a stainless steel cable suspended in the vessel. These pulses are reflected by the surface of the process medium to provide accurate level measurement in vessels, storage tanks, silos and hoppers.

Levels are reliably detected even in products with changing humidity or fluctuating dielectric constant.

In addition, the **FLEX 50** can be calibrated without changing the product level (i.e. no empty & fill).



**HiTECH Technologies, Inc.**

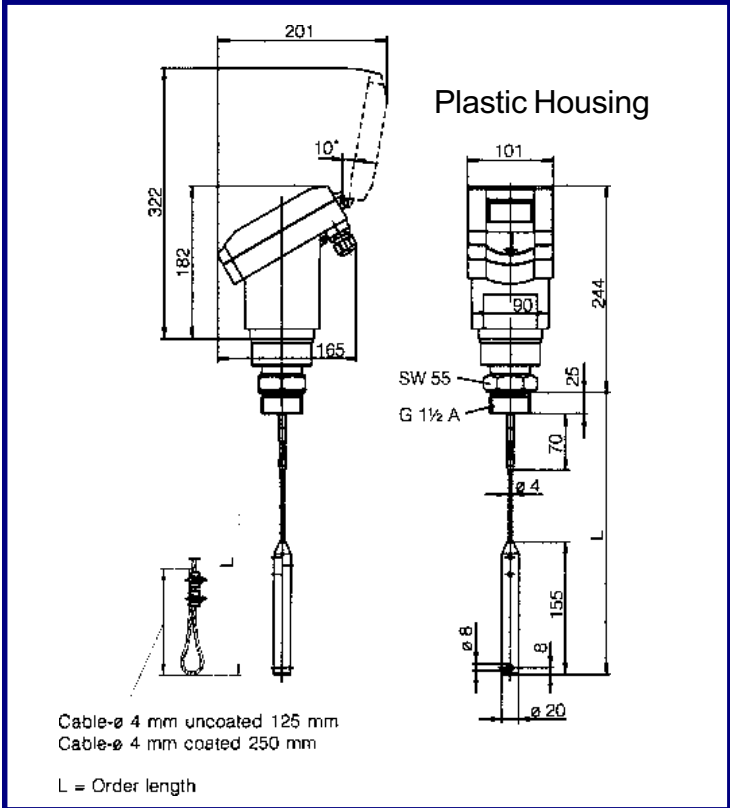
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### **SPECIFICATIONS**

<b>Type</b> Short Pulse Guided Microwave Level Transmitter	<b>Adjustment</b> HART hand-held terminal MINICOM module Signal conditioner (VEGAMET) PC with Visual Op. software	<b>Materials</b> Housing PBT - VALOX Cable 316 Stainless
<b>Measurement Range</b> 0.3 to 20 meters	<b>Process Temperature</b> - 40 °C to +120 °C	<b>Mounting</b> G 1-1/2 A or 1-1/2" NPT
<b>Accuracy</b> Linearity < 0.1% Resolution 1 mm Drift 0.015%/10°K	<b>Output Signal</b> 0/4 - 20mA (2-wire or 4 wire) w/ digital (optional)	<b>Power Supply</b> 20 to 36 VDC
		<b>External Load</b> 500 Ohms Max.



### **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.

