

# **HiTECH**

Technologies, Inc.

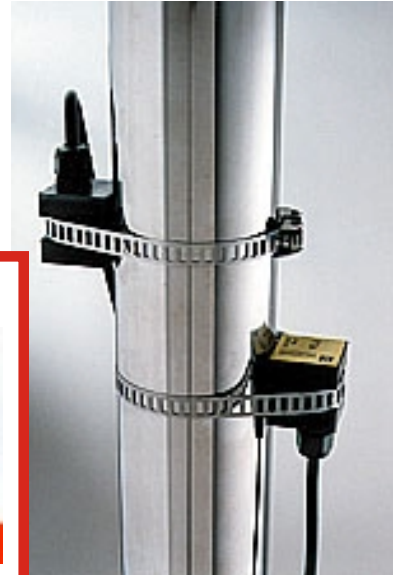
## **SONOCONTROL 11**

***Penetrating Pulse Technology  
provides through the wall measurement  
of liquid levels  
presence or absence detection***

Model SC-11

IDEAL for

- ◆ Biotech
- ◆ Chemicals
- ◆ Food & Beverages
- ◆ Liquified Gases
- ◆ Hydrocarbons
- ◆ Pharmaceuticals
- ◆ Pure water



### **External transducer**

Hygienic, Maintenance free, Non-Hazardous.

### **Functions with**

Corrosive, Toxic, Purified, Aggressive Liquids.

### **Unaffected by**

All vapors or changes in vapor concentrations.  
Pressure and pressure variations.

### **Installation**

Easy to install no welding required.

This revolutionary system was developed and field proven in Europe. Now available in the USA, exclusively by HiTECH, this proprietary approach that we call "penetrating pulse technology", enables "Through the Wall" level measurement.

The fundamental measurement principle is easy to understand. The transducer emits a brief penetrating acoustic pulse. This pulse is transmitted through the wall of the vessel into the pipe. The unit monitors the pulse transit time, which is different for gas and liquid, provides a signal (switch contact) indicative of materials' presence or absence.

Media monitored may be abrasive, corrosive, or toxic, and/or contained in sealed or pressurized vessels at high temperatures. Also eliminated are the concerns of vessel integrity, contamination, or sensor wear.



**HiTECH Technologies, Inc.**

301 Oxford Valley Road, Yardley, PA 19067-7706

Technical support: 800. 755. 4507

Tel: 215. 321. 6012 ~ Fax: 215. 321. 6067 ~ [www.hitechtech.com](http://www.hitechtech.com)

**SPECIFICATIONS**

**Type**

Penetrating Pulse Technology point level (presence/absence)

- Pulse-echo method with lateral attachment
- Pulse-echo method with vertical attachment
- Ultrasonic transmission
- Dying down

**Measurement Range**

Max. transmission time: 32 ms (approx. 23 m with water)

**Resolution**

Gate beginning/ gate width: 1  $\mu$ s

**Frequency**

Measurement Cycle  
Approx. 20 HZ

**Sensor Cable Length**

Max. 10 meters

**Maximum Wall Thickness**

2.0" metal, glass, fiberglass, or plastic with or without lining.

**Output Signal**

Relay contact  
500 ma, 50 V

**Electrical Connection**

Electronics  
IP65 cable gland, internal: plug-in screw terminals

Sensors  
permanently installed cable or water-tight plug connector

**Parameter Setting**

- Digital buttons via display panel
- Access control by code number

**Power Requirements**

18 ... 30 VDC, 100 mA

**Operating Temperature**

Electronics -20 to +60°C  
Sensors -20 - +135°C

**Housing**

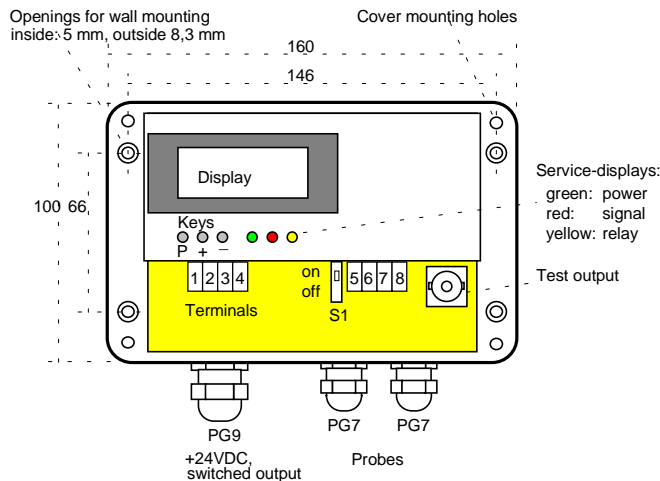
Electronics - Aluminium, IP65  
L x W x H: 160 x 100 x 80 mm,  
Sensors  
Plastic or Stainless Steel:

**Mounting**

Electronics  
wall-mounted  
Sensors  
Mounting ring / mounting plate / fastening strap on vessel:

**Approvals**

CE Conformity



**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.