

# **HiTECH**

Technologies, Inc.

## **Sludge Blanket Level Monitor / Transmitter**

Model SBL - 30

### *Penetrating Pulse Technology*

An Ideal *Low Cost* solution for

**Continuous Sludge Blanket Monitoring**

**in Water and Wastewater Treatment Facilities**

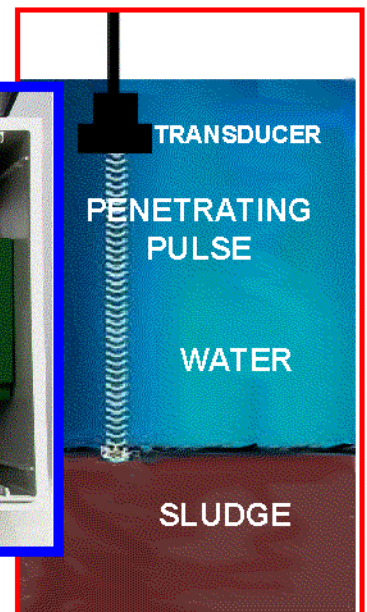
Clarifiers

Gravity Thickeners

Settling Tanks

Separation Tanks

Slurry Tanks



Measure up to 100 feet

Smart Electronics

Simple, User Friendly Software

Rugged Submersible Transducer

Maintenance Free

Easy to Install and Program

This revolutionary system utilizes an innovative and unique technique - "**penetrating pulse technology**".

The fundamental measurement principle is easy to understand. The transducer mounted suspended from above, so that it is just below water's surface.

The transducer emits a short penetrating acoustic pulse which is transmitted downward to the sludge. The pulse then reflects back to the transducer from the interface. Based on the pulse transit time to and from the interface surface, actual sludge level is computed.

**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)

# HiTECH

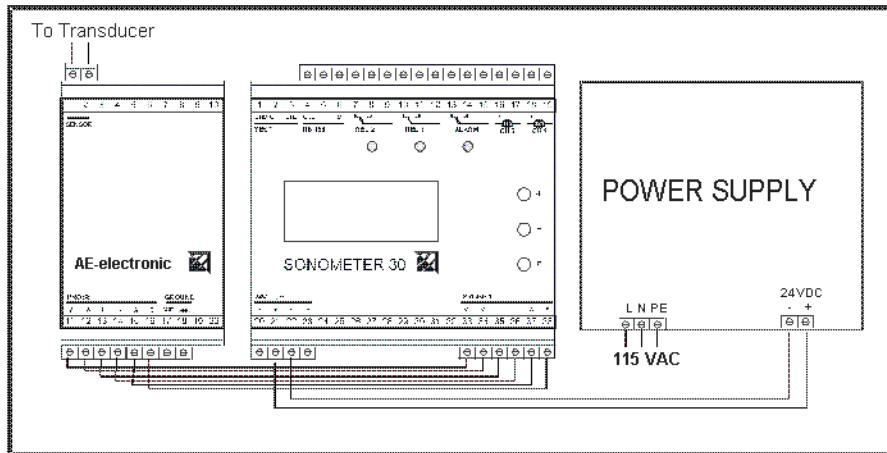
Technologies, Inc.

# Sludge Blanket Level Monitor / Transmitter

Model SBL -30

## SPECIFICATIONS

<b>Type</b> Penetrating Pulse Technology continuous level measurement	<b>Output Signal</b> 4 to 20 mA, isolated user calibration functions direct or reverse action	<b>Power Requirements</b> 85 to 265 VAC
<b>Operating Range</b> Up to 100 feet	<b>NOTE:</b> Parameters are set with the keyboard and integrated display or via the serial interface.	<b>Loop Resistance</b> 500 ohms
<b>Accuracy &amp; Sensitivity</b> Application dependent		<b>Electrical Connection</b> Screw terminal connections.
<b>Response Time</b> Programmable from 10 mseconds	<b>Materials of Construction</b>	<b>Operating Temperature</b>
<b>Dead Band</b> Standard 2"	<b>Electronics:</b> Polycarbonate (4"x 3"x 4") NEMA 4X	<b>Electronics</b> -4 to +158 °F
	<b>Transducer:</b> 316 SS TI/KYNAR	<b>Transducer</b>
	<b>Optional:</b> Encapsulated in heavy duty stainless steel pipe	<b>Standard</b> -20 to +176 °F <b>High Temp.</b> To +275 °F



System Wiring in NEMA 4X Enclosure

### 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.

Copyright HiTECH Technologies, Inc. 2001

**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)