

SONOMETER 30

Penetrating Pulse Technology

Model SM-30

provides through the wall measurement of liquid levels

IDEAL for

- Biotech
- Chemicals
- Electric Power
- Food & Beverages
- Liquefied Gases
- Hydrocarbons
- **♦** Interface & Crystallization
- Pharmaceuticals
- Pure water

Functions with:

Corrosive, Toxic, Purified, Aggressive Liquids.

External transducer:

Hygienic, Maintenance free, Non-Hazardous.

Unaffected by:

All vapors or changes in vapor concentrations. Foam and surface foaming.

Pressure and pressure variations.

Installation:

Easy to install no welding required.



The fundamental measurement principle is easy to understand. The sensor emits a brief pentrating acoustic pulse. This pulse is transmitted through the bottom of the vessel into the liquid. The pulse is then reflected back to the sensor from the liquid surface. From the time required for the pulse to travel to the liquid surface and back, the actual level is computed.

Materials measured may be highly toxic, abrasive, or corrosive, and/or contained in a sealed or pressurized vessel even at high temperatures. Additionally, concerns related to contamination, vessel integrity, internal obstructions, or sensor wear are eliminated.

HITECH Technologies, Inc.



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SPECIFICATIONS

Type

Penetrating Pulse Technology continuous level measurement

Operating Range

Application dependent up to 65 feet

Accuracy

Application dependent. With compensating transducer 0.04" 1 mm

Sensitivity

Application dependent

Response Time

Programmable from 10 mseconds

Dead Band

Application dependent Standard 2" (54 mm)

Output Signal

0/4...20 mA, isolated direct or reverse action user calibration functions

NOTE: Parameters are set with the keyboard and integrated display or via the serial interface.

Loop Resistance

500 Ohms.

Operating Temperature

Electronics $-4-158^{\circ}F$ Transducer Housing $-20-176^{\circ}F$ Vessel Surface $Max = 275^{\circ}F$

Maximum Wall Thickness

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

Power Requirements

19 ... 30 VAC/DC 500 mA

Electrical Connection

Screw terminal connections.

Housing

Rating: NEMA 4, Opt. NEMA 4X

Mounting: DIN Rail

Materials of Construction

Electronics: Polycarbonate

(3.94"x 2.96"x 3.94")

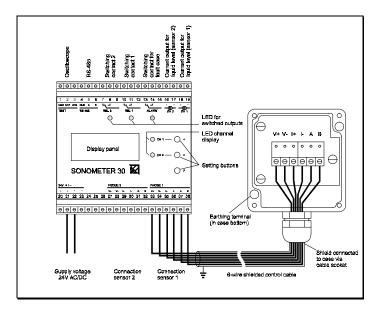
Transducer: 316 SS TI/KYNAR

(Appl. dependent)

Approvals

PTB EEx m II T6

CE



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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