

Sound Steadfast Solutions

Made in the U.S.A

Invasive Point Level System







Description

The Ultrasonic Point Level System 9600 Series is designed to detect the level of Ultra-Pure Liquid Chemical in Bubblers and Ampoules in the Semiconductor industry in PVD, CVD and ALD processes. The probe fits in the ½" or ¾" VCR fill port of the ampoules. There are no moving parts to the probe that may introduce impurities. It is not dependent on the color, dielectric, density and viscosity of the chemical. The design allows for multiple sensing points. All wetted parts of the probe is 316LSS, electropolish finish and leak tested. Each probe is custom made to user's specifications and requirements.

The electronics are remotely mounted from the probes to allow for higher temperature applications. There is no calibration or adjustments between sensors.

Operation

The 9600 Series unit consists of a pair of piezoelectric elements per point, mounted between two tubes or between the prongs of a fork to detect presence or absence of liquid. Each one of the pairs of the elements is able to transmit an ultrasonic signal that is able to be received by the corresponding other element of each pair to detect the presence of liquid. The ultrasonic signal is attenuated with no liquid present and passes freely across the gap when liquid is present. The circuit detects the presence or absence of the ultrasonic signal and converts the signal to a relay output.

Performance Guarantee

Should the unit not perform as we claim within 45 days of delivery and was properly installed consistent with our stated requirements and specifications Sensaras will gladly accept a return of the unit for a full credit.

Warranty

Sensaras' level sensors are warranted against inherent defects for a period of 24 months from the date of shipment.

Specifications

Probe Design Features

Material: Tube or Fork 316LSS

W- Probe 4 or 8 points on 0.375" OD tube with 0.21" ID- $\frac{1}{2}$ " VCR

W- Probe 4 or 8 points on 0.562" OD tube with 0.31" ID - 3/4" VCR

M-Probe 4 point on 0.562" OD tube for low level - 34"VCR

Temperature: -20 to 120°C

Pressure: 250 PSIG

Repeatability: Typical +/- 0.05" Lowest Sensing Point on probe: 0.20" Minimum distance between point: 0.20" Finish: Electro-polished / 10u Ra Surface

Cable: 2' long integral or remote Optional: K- type Thermocouple

Electronic Module Design Features

Input: 24VDC

Output: 1A SPDT with LED Display

Additional Fault relay output/sensor disconnect

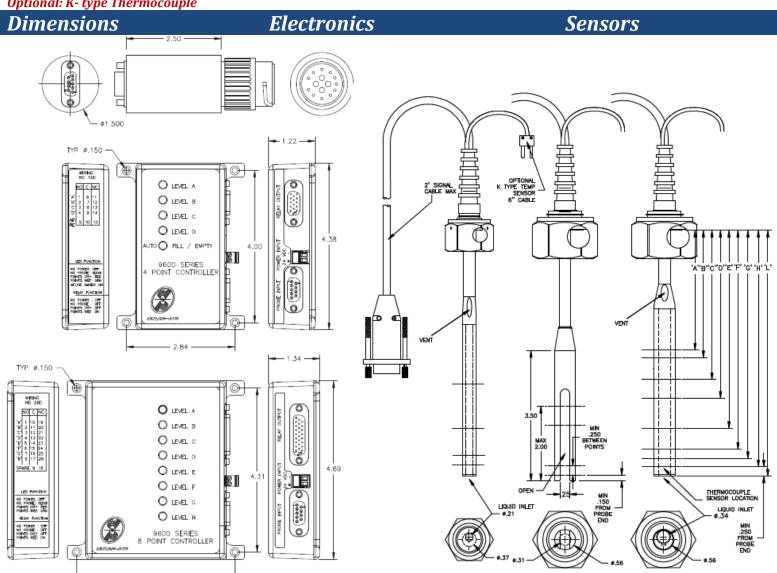
Additional Auto fill / empty output

Sensor disconnect

Optional: 90 to 240VAC power supply Optional: K-Type Thermocouple display

Remote / Integral / Custom Electronics

Molded Cable Extension



Please call Sensaras for part numbers for electronics and sensors

Disclaimer: Due to technical progress all Data Sheets are subject to change without notice. Sensaras believes all information in this Data Sheet is correct but is not responsible for any inaccuracies. Sensaras is not liable for any damages. It is the customer's responsibility to install, operate and maintain products properly.