

## PRODUCT DESCRIPTION

The Model 950 is an innovative suspended solids monitor that utilizes an insertion-type sensor. A submersible sensor is available for open channel applications. Since the sensor can be inserted in any size pipe, costly by-pass systems are not required. The design eliminates the effects of fluid color. In-situ measurements provide instantaneous accurate readings and a choice of isolated linear outputs is supplied as standard.

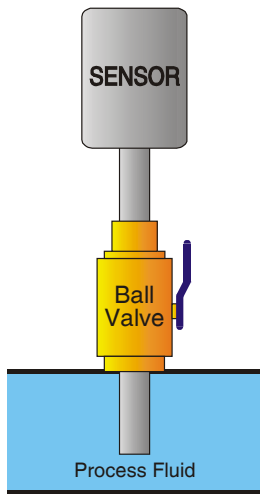
## FEATURES

- Wide dynamic range
- In-line measurements assure maximum accuracy
- Hot-tap installation permits uninterrupted flow
- Linear-isolated output
- Optional alarms, battery power
- Use in any size pipe
- High accuracy and reliability
- Insensitive to visible colors, flow, temperature & pressure
- One-year limited warranty

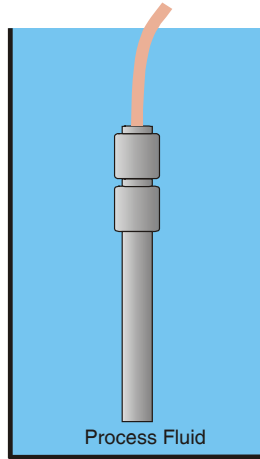
## PRINCIPLE OF OPERATION

The Model 950 suspended solids monitor uses a pre-focused incandescent lamp to direct a beam of light through the process fluid. Particulate matter in the fluid absorbs light in proportion to particulate concentration. The transmitted light is detected by a silicon detector which generates a current signal proportional to the particulate concentration. The electronic signal converter amplifies and scales the current signal to provide a readout on a meter and an isolated output signal.

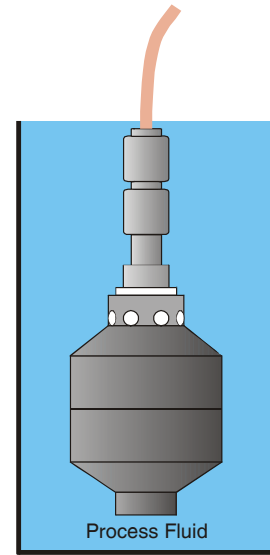
# MODEL 950 TYPICAL SENSOR MOUNTING



INSERTION  
SENSOR



SUBMERSIBLE  
SENSOR



SUBMERSIBLE  
WITH LIGHT SHIELD

## SPECIFICATIONS

### SENSORS

Type

Size

Wetted Parts

Process Temp.

Pressure

Mounting

Dimensions

Diameter

Length

Junction Box

#### Insertion Probe

Pipes greater than 2 inches

316 Stainless, glass

15°F to 230°F (-10°C to 110°C)

0 to 150 psig

1" NPT male

7/8"

12"

2 X 4 X 2"

#### Submersible Probe

Open channel/tanks

316 Stainless, glass, PVC cable

15°F to 140°F (-10°C to 60°C)

0 to 50 psig(110 feet of water)

Cable or rigid mount

7/8"

8"

None

### TRANSMITTER

Display

Range

Input

Output

Resolution

Repeatability

Ambient Temperature

Alarms

Enclosure

Dimensions

NEMA 1

NEMA 4X

Mounting

NEMA 1

NEMA 4X

Power

Shipping Weight

3-1/2 digit LCD (0 to 2, 0 to 20, 0 to 200 or 0 to 2000 scales)

0 to 2000ppm to 0 to 50% full scale

Model 950 sensor

4 to 20 mA into 600 ohms max. isolated, other outputs available

0.05% of full scale

0.05% of full scale

32°F to 120°F (0°C to 50°C)

Optional dual alarms

NEMA 1 or NEMA 4X

11" W x 6" H x 4" D

11-7/8" x 7-1/4" x 6-3/4"

Panel or wall mount

Wall or pipe mount

115 or 230 VAC @ 50/60 Hz, 5 Watts. Optional 12 & 24 VDC etc.

16-24 lbs. depending on options

**CONFAB**  
INSTRUMENTATION  
11180 Ranchette Drive  
Jackson, CA 95642  
USA

209-223-1090

E-Mail: [info@confabinstrumentation.com](mailto:info@confabinstrumentation.com)

[www.confabinstrumentation.com](http://www.confabinstrumentation.com)

**Represented By:**