



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.

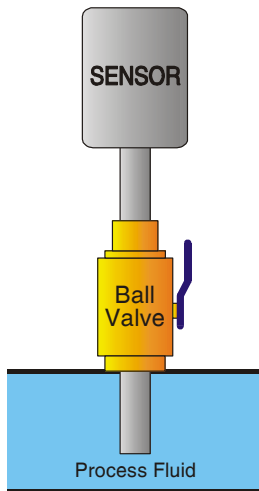
FEATURES

- **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**

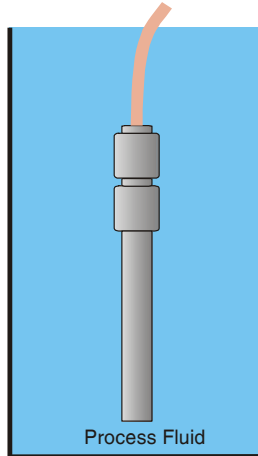
PRINCIPLE OF OPERATION

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.

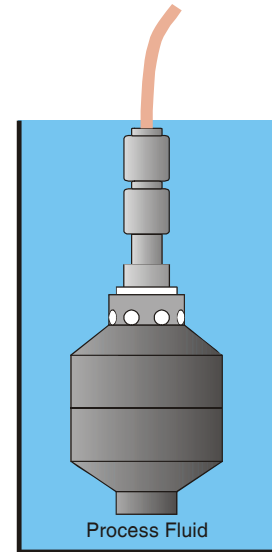
MODEL 950 TYPICAL SENSOR MOUNTING



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, 20 Watts. Optional 12 & 24 VDC etc.

16-24 lbs. depending on options

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