

# SUSPENDED SOLIDS SENSOR



## PRODUCT DESCRIPTION

The Model 951 Suspended Solids Sensor is a rugged DC-powered insertion-type probe that measures suspended solids as a standalone unit. Since the sensor can be inserted in any size pipe, costly bypass systems are not required. The design eliminates the effects of fluid color. In-situ measurements provide instantaneous, accurate readings and the sensor has an isolated linear 4-20mA output for connection to control/monitoring systems.

# FEATURES

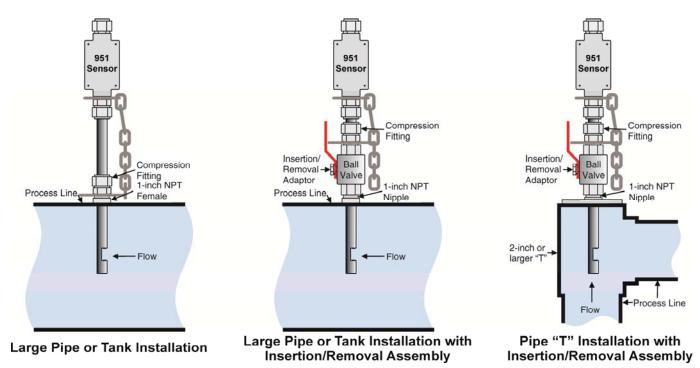
- Wide dynamic range
- Rugged and reliable
- Inline measurements assure maximum accuracy
- Low cost
- Hot-tap installation permits
  uninterrupted flow

- Linear-isolated output compatible with 4-20mA control/monitoring systems
- Use in any size pipe
- Insensitive to visible colors, flow, temperature & pressure
- One-year limited warranty

#### PRINCIPLE OF OPERATION

The Model 951 suspended solids sensor 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 received by a silicon detector that generates a current signal proportional to the particulate concentration. The current signal is converted, amplified and scaled to provide a linear, isolated 4-20mA output signal.

### **MODEL 951 TYPICAL SENSOR MOUNTING**



#### SPECIFICATIONS

Type Range Power Output **Pipe Size** Wetted Parts **Process Temperature** Pressure Mounting Resolution Repeatability Accuracy **Ambient Temperature** Enclosure Shipping Weight **Dimensions Tube Diameter Tube Length Junction Box Overall Length** 21-22" depending on light gap



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Insertion Sensor Adjustable from 0 to 2,000ppm up to 0 to 50% solids 24 VDC @ 120mA or 12 VDC @ 240mA 4-20mA DC into 600 ohms max. isolated, other outputs available Greater than 2 inches 316 Stainless, glass 15°F to 230°F (-10°C to 110°C) 0 to 150 psig 1" NPT male 1 ppm 1 ppm 1% of scale 32°F to 120°F (0°C to 50°C) Dust Proof, Waterproof 6-10 lbs. depending on cable length 7/8" 12" 2.5" X 3" X 6"

**Represented By:**