

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.

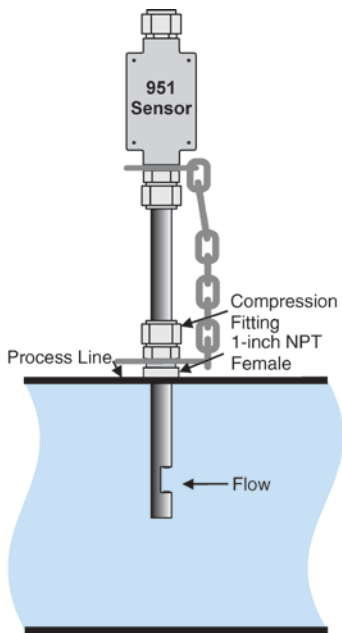
FEATURES

- **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**

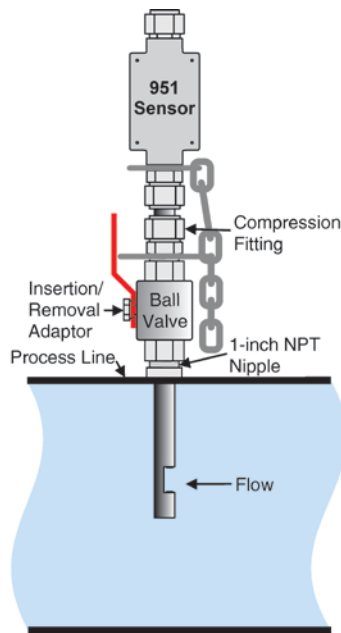
PRINCIPLE OF OPERATION

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.

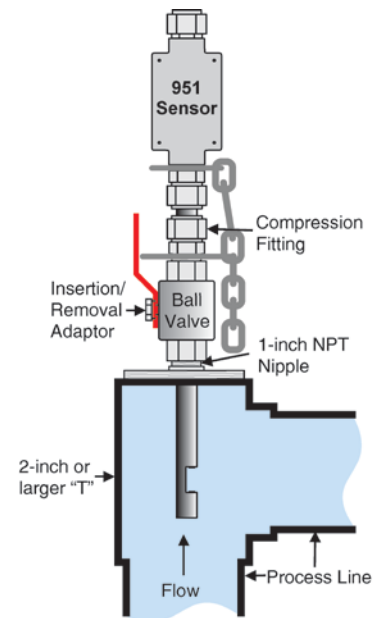
MODEL 951 TYPICAL SENSOR MOUNTING



Large Pipe or Tank Installation



Large Pipe or Tank Installation with Insertion/Removal Assembly



Pipe "T" Installation with Insertion/Removal Assembly

SPECIFICATIONS

Type	Insertion Sensor
Range	Adjustable from 0 to 2,000ppm up to 0 to 50% solids
Power	24 VDC @ 100mA or 12 VDC @ 200mA
Output	4-20mA DC into 600 ohms max. isolated, other outputs available
Pipe Size	Greater than 2 inches
Wetted Parts	316 Stainless, glass
Process Temperature	15°F to 230°F (-10°C to 110°C)
Pressure	0 to 150 psig
Mounting	1" NPT male
Resolution	1 ppm
Repeatability	1 ppm
Accuracy	1% of scale
Ambient Temperature	32°F to 120°F (0°C to 50°C)
Enclosure	Dust Proof, Waterproof
Shipping Weight	6-10 lbs. depending on cable length
Dimensions	
Tube Diameter	7/8"
Tube Length	12"
Junction Box	2.5" X 3" X 6"
Overall Length	21-22" depending on light gap


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