

PRODUCT DESCRIPTION

The Model 850 is an innovative turbidimeter 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. A 4-position calibrated range dial allows for the selection of four NTU ranges.

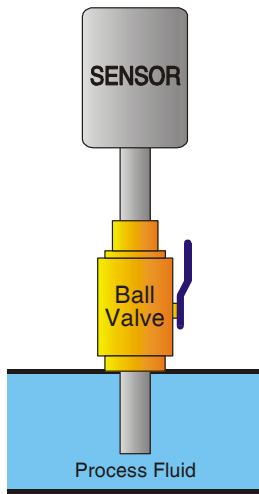
FEATURES

- **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**

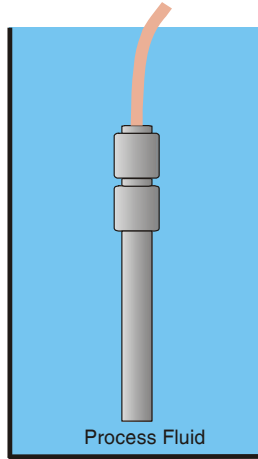
PRINCIPLE OF OPERATION

This turbidimeter uses a prefocused incandescent lamp to direct a beam of light through the process fluid. Particulate matter in the fluid scatters light in proportion to particulate concentration. The scattered light is received by a silicon detector that generates a current signal proportional to the particulate concentration. The electronic signal converter amplifies and scales the current signal to provide a linear readout on a digital meter with an isolated output signal.

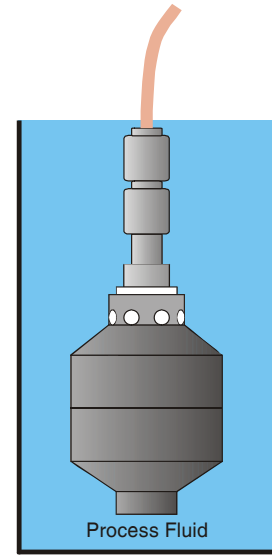
MODEL 850 TYPICAL SENSOR MOUNTING



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, sapphire

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, sapphire, 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

Accuracy

Ambient Temperature

Alarms

Enclosure

Dimensions

NEMA 1

NEMA 4X

Mounting

NEMA 1

NEMA 4X

Power

Shipping Weight

3-1/2 digit LCD indicator

0 to 2, 0 to 20, 0 to 200, 0 to 2000 NTU switch selectable

Model 850 Sensor

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

0.05%

Range dependent 0.01 NTU

2% 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

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