

TURBIDIMETER MODEL 850



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

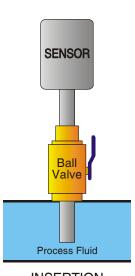
- Wide dynamic range
- In-line measurements assure maximum accuracy
- Hot-tap installation permits uninterrupted flow
- Linear-isolated output

- Optional alarms, battery power
- Use in any size pipe
- High accuracy and reliability
- Insensitive to visible colors, flow, temperature & pressure
- One-year limited warranty

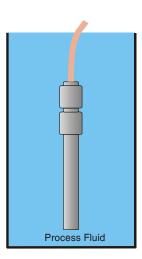
PRINCIPLE OF OPERATION

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.

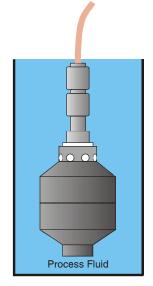
MODEL 850 TYPICAL SENSOR MOUNTING







SUBMERSIBLE SENSOR



SUBMERSIBLE WITH LIGHT SHIELD

SPECIFICATIONS

SENSORS

Type Insertion Probe
Size Pipes greater than 2 inches

Wetted Parts 316 Stainless, glass Process Temp. 316 Stainless, glass 15°F to 230°F (-10°C to 110°C)

Pressure 0 to 150 psig
Mounting 1" NPT male

Dimensions
Diameter 7/8"

Length 12" Junction Box 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 3-1/2 digit LCD indicator

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

Input Model 850 Sensor

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

Resolution 0.05%

Repeatability Range dependent 0.01 NTU

Accuracy 2% of full scale

Ambient Temperature 32°F to 120°F (0°C to 50°C)

Alarms Optional dual alarms
Enclosure NEMA 1 or NEMA 4X
Dimensions

NEMA 1 11" W x 6" H x 4" D NEMA 4X 11-7/8" x 7-1/4" x 6-3/4"

Mounting

NEMA 1 Panel or wall mount
NEMA 4X Wall or pipe mount

NEMA 4X Wall or pipe mount

Power 115 or 230 VAC @ 50/60 Hz, 20 Watts. Optional 12 & 24 VDC etc.

Shipping Weight 16-24 lbs. depending on options

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