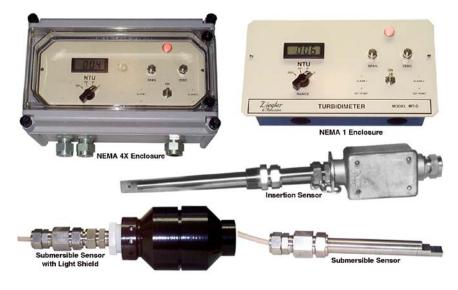
TURBIDIMETER MODEL 977-C





PRODUCT DESCRIPTION

This innovative turbidimeter uses an insertion-type sensor that can be inserted in any size pipe, thus avoiding costly bypass systems. A submersible sensor is available for open channel applications. The design eliminates the effects of fluid color. In-situ measurements provide instantaneous accurate readings and the instrument comes standard with a choice of isolated linear outputs. A 4-position calibrated range dial allows for the selection of four NTU ranges.

FEATURES

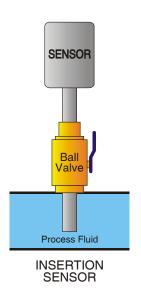
- Wide dynamic range
- In-line measurements assure maximum accuracy
- Hot-tap installation permits uninterrupted flow
- Linear-isolated output

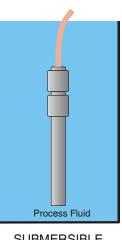
- Optional alarms, battery power
- Use in any size pipe
- High accuracy and reliability
- Insensitive to visible colors, flow, temperature & pressure
- One-year limited warranty

PRINCIPLE OF OPERATION

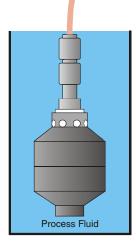
This turbidimeter uses a prefocused incandescent lamp to direct a beam of light through the process fluid. Particulate matter in the fluid scatters light in proportion to particulate concentration. The scattered light is received by a silicon detector which generates a current signal proportional to 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 977-C TYPICAL SENSOR MOUNTING





SUBMERSIBLE SENSOR



SUBMERSIBLE WITH LIGHT SHIELD

SPECIFICATIONS

SENSORS Type Size Wetted Parts Process Temp. Pressure Mounting Dimensions Probe Diameter Probe Length Junction Box

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

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 0.875"

12" 2" X 4" X 2"

Submersible Probe

Open channel/tanks 316 Stainless, glass 15°F to 140°F (-10°C to 60°C) 0 to 50 psig(110 feet of water) Cable or rigid mount

0.875" 8" None

3.5 digit LCD indicator 0 to 2.000, 0 to 20.00, 0 to 200.0, 0 to 2000 NTU switch-selectable Model 977-C Sensor 4 to 20 mA into 600 ohms max. isolated, other outputs available 0.05% of full scale 0.01% of full scale 2% or reading 32°F to 120°F (0°C to 50°C) Optional dual alarms NEMA 1 or NEMA 4X

11" wide x 6" high x 4" deep 11.875" wide x 7.25" high x 6.75" deep

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

ZIEGLER & ASSOCIATES

11180 Ranchette Dr. Jackson CA 95642 USA Phone : 209-223-1090 Fax : 209-223-1090 Email: info@zieglerassociates.com Web: www.zieglerassociates.com