

TURBIDIMETERS AND
SUSPENDED SOLIDS MONITORS
FOR INLINE AND
OPEN CHANNEL MEASUREMENT



PRODUCT CATALOG

CONFAB
INSTRUMENTATION

TURBIDIMETER

*Measures turbidity or low-level
suspended solids in fluids
(2 to 2000NTU)*

NEMA 4X Enclosure



NEMA 1 Enclosure



**Insertion
Sensor**



**Submersible Sensor
with Light Shield**



Submersible Sensor

SPECIFICATIONS

TRANSMITTER

Display	3.5 digit LCD indicator
Range	0-2, 0-20, 0-200, 0-2000 NTU switch-selectable
Input	Model 850 Sensor
Output	4-20 mA into 600 ohms max. isolated, others available
Resolution	0.05%
Repeatability	Range dependent 0.01 NTU
Accuracy	2%
Ambient Temp.	32°F to 120°F (0°C to 50°C)
Alarms	Optional dual alarms
Enclosure	NEMA 1 (standard) or NEMA 4X (optional)
Dimensions	NEMA 1 11" W x 6" H x 4" D NEMA 4X 11.875" W x 7.25" H x 6.75" D
Mounting	NEMA 1 Panel or wall mount NEMA 4X Wall or pipe mount
Power	115/230 VAC@50/60 Hz, 5 Watts. Optional 12 & 24 VDC etc.
Shipping Weight	16-24 lbs. depending on options

SENSOR

	Insertion	Submersible
Type	Pipes >2"	Open channel/tanks
Size	15" F to 230" F (-10°C to 110°C)	15" F to 140" F (-10°C to 60°C)
Wetted Parts	316 stainless, sapphire	316 stainless, sapphire
Process Temp.	15°F to 230°F (-10°C to 110°C)	15°F to 140°F (-10°C to 60°C)
Pressure	0 to 150 psig	0 to 50 psig (110' of water)
Mounting	1" NPT male	Cable or rigid mount
Dimensions	0.875" diameter 12" length	0.875" diameter 8" length
Junction Box	2" X 4" X 2"	None

MODEL 850

This unique turbidimeter features an insertion-type sensor that can be used in any size pipe, eliminating costly bypass systems. The innovative design minimizes the effects of fluid color. In-situ measurements provide instantaneous, accurate readings. The turbidimeter comes standard with a choice of isolated linear outputs and a 4-position calibrated range dial allowing the user to select the most appropriate of four NTU range scales. A submersible sensor is optional for tanks and open channels.

TURBIDITY SENSOR

*Measures turbidity or low-level
suspended solids in fluids
(2 to 2000NTU)*

Insertion Sensor



**Optional Pipe Insertion/Removal
Ball Valve Assembly**

MODEL 851

This rugged DC-powered insertion-type probe measures turbidity as a standalone unit. Since the sensor can be inserted into 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. Calibrated range switches allow for the selection of four NTU ranges.

SPECIFICATIONS

TURBIDITY SENSOR

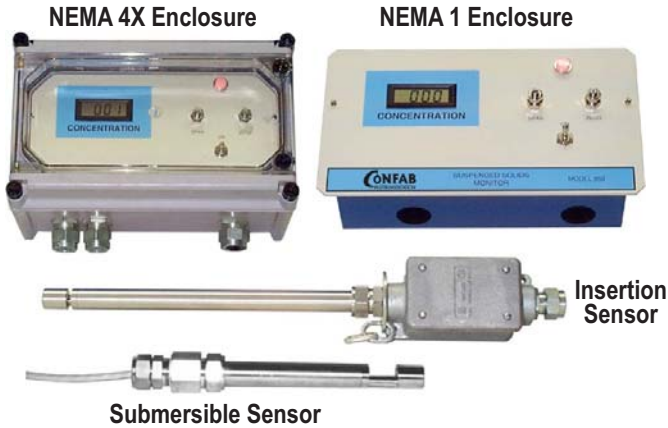
Type	Insertion Sensor
Range	0-2, 0-20, 0-200, 0-2000 NTU switch-selectable
Power	24 VDC @ 100mA or 12 VDC @ 200mA
Output	4-20mA DC into 600 ohms max. isolated, other outputs available
Pipe Size	>2"
Wetted Parts	316 Stainless, sapphire
Process Temp.	15°F to 230°F (-10°C to 110°C)
Pressure	0 to 150 psig
Mounting	1" NPT male
Resolution	0.001 NTU
Repeatability	0.001 NTU
Accuracy	1% of scale
Ambient Temp.	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	0.875"
Tube Length	12"
Junction Box	2.5" X 3" X 6"
Overall Length	21"

SUSPENDED SOLIDS MONITOR

Measures high-level suspended solids in fluids (up to 50% solids)

MODEL 950

This innovative suspended solids monitor accurately measures the concentration of solids in clear or colored fluids. The instrument offers a low range scale of 0 to 2000ppm and scales up to 0 to 50% suspended solids, and is available with either an insertion-type or submersible-type sensor. The insertion-type sensor slips through a compression fitting which allows installation into any size pipe, eliminating costly bypass systems. The submersible sensor can be used in tanks, ponds or open channel applications.



SPECIFICATIONS

TRANSMITTER

Display	3-1/2 digit LCD (0-2, 0-20, 0-200 or 0-2000 scales)
Range	0-2000ppm to 0-50% full scale
Input	Model 950 sensor
Output	4-20 mA into 600 ohms max. isolated, other outputs available
Resolution	0.05% of full scale
Repeatability	0.05% of full scale
Ambient Temp.	32°F to 120°F (0-50°C)
Alarms	Optional dual alarms
Enclosure	NEMA 1 (standard) or NEMA 4X (optional)
Dimensions	NEMA 1 11" W x 6" H x 4" D NEMA 4X 11.875" W x 7.25" H x 6.75" D
Mounting	NEMA 1 Panel or wall mount NEMA 4X Wall or pipe mount
Power	115/230 VAC @ 50/60 Hz, 5 Watts. Optional 12 & 24 VDC etc.
Shipping Weight	16-24 lbs. depending on options

SENSOR

	Insertion	Submersible
Type	Pipes >2"	Open channel/tanks
Size	316 stainless, glass	316 stainless, glass
Wetted Parts	15°F to 230°F (-10°C to 110°C)	15°F to 140°F (-10°C to 60°C)
Process Temp.	0 to 150 psig	0 to 50 psig (110' of water)
Pressure	1" NPT male	Cable or rigid mount
Mounting	0.875" diameter	0.875" diameter
Dimensions	12" length	8" length
Junction Box	2" X 4" X 2"	None

SUSPENDED SOLIDS SENSOR

Measures high-level suspended solids in fluids (up to 50% solids)

MODEL 951

This rugged DC-powered insertion-type probe 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.

Insertion Sensor



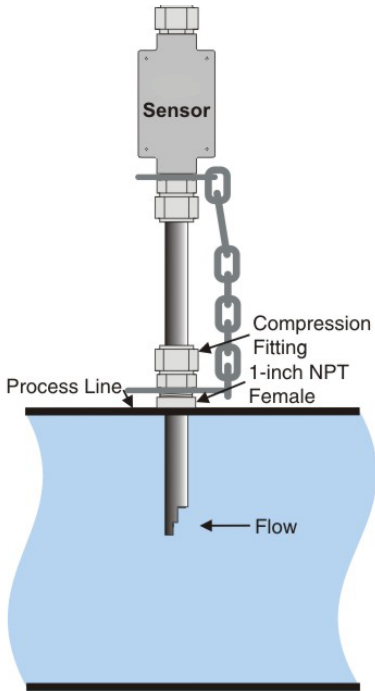
Optional Pipe Insertion/Removal Ball Valve Assembly

SPECIFICATIONS

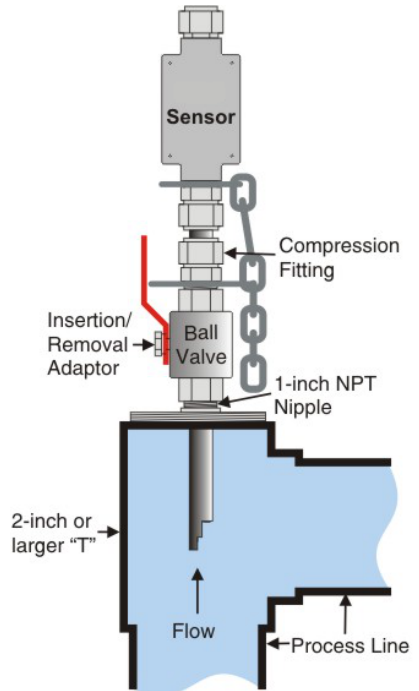
SUSPENDED SOLIDS SENSOR

Type	Insertion Sensor
Range	Adjustable from 0 to 2,000ppm up to 0 to 50% solids
Power	24 VDC @ 120mA or 12 VDC @ 240mA
Output	4-20mA DC into 600 ohms max. isolated, other outputs available
Pipe Size	>2"
Wetted Parts	316 Stainless, glass
Process Temp.	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 Temp.	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	0.875"
Tube Length	12"
Junction Box	2.5" X 3" X 6"
Overall Length	21"-22" depending on light gap

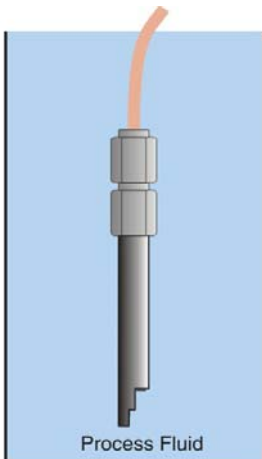
TYPICAL SENSOR INSTALLATIONS



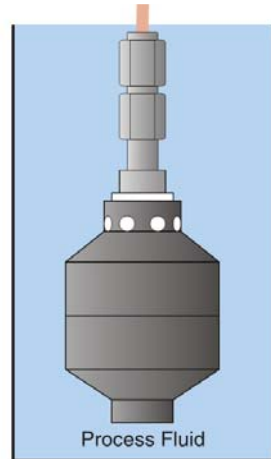
Insertion Sensor in Large Pipe or Tank Installation



Insertion Sensor in Pipe "T" with Insertion/Removal Assembly



Submersible Sensor in Open Channel or Tank



Submersible Sensor with Light Shield

ABOUT US

Since 1977, Confab Instrumentation has been manufacturing specialty electronic instrumentation for a wide range of industrial and environmental applications, including water filtration & treatment, environmental monitoring, dairies, breweries and pulp and paper mills. Made from high-quality electronic components, our instruments are designed to be rugged, dependable and easily serviced on site. Our 316 stainless sensors are made to resist chemical damage and ensure long life. We offer a variety of options, including NEMA 4X electronics enclosures that can be wall or panel mounted, submersible sensors, and pipe insertion assemblies.



All products come with a one-year limited warranty. Replacement parts are readily available for all products. We ship worldwide from our California location. Most orders ship within days. We offer free phone and email technical support for the lifetime of all instruments.

Features include:

- Wide dynamic range
- Simple installation
- Linear-isolated output
- Stainless steel sensor
- Designed for durability
- High accuracy and reliability
- Low maintenance
- Field-serviceable
- One-year limited warranty



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