

# MODEL MFD-4 SENSOR

999379

## MEDIA FLOW DETECTOR for Suction type abrasive blasting



- All types of media flow
- No moving parts
- Relay contact output
- Powered by 24Vdc
- Pushbutton Setup
- LED indicators



\* Mating Plugs and Cables are sold separately.

The Model MFD Media Flow Detector uses a charge-coupled amplifier connected to a sensing pin. This pin is inserted into the flow path of any abrasive blasting media. Each particle passing the pin shares a minute charge with the pin. This charge is converted to a voltage that is used to activate an output relay contact.

Setup has been simplified with this latest generation technology. The zero and span functions are automatic. Just push the “zero” button to acquire zero for the no-flow condition and push the “flow” button to set the sensor gain and activate the relay. The relay contact will transfer whenever the flow is 50-100% of the programmed setting.

The MFD is enclosed in a rugged aluminum housing and is attached to the media blast hose at any convenient location and orientation. A sensing pin protrudes from the bottom of the mounting base.

**ELECTRONICS INCORPORATED**

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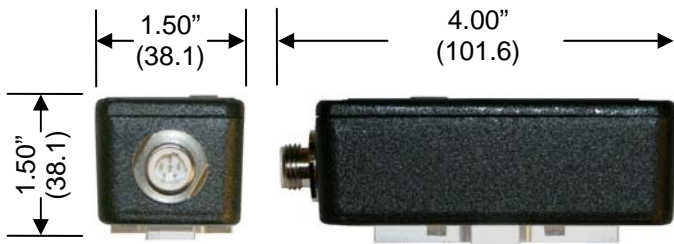


Figure 1

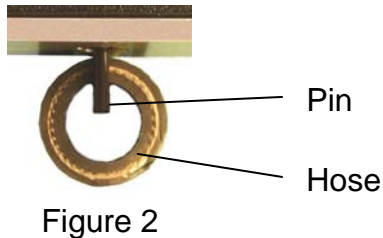


Figure 2

## Installation:

1. Drill 5/32" dia. hole in hose.
2. Insert sensor pin into MFD first then insert in hole in hose.
3. Clamp sensor to the hose with tie wraps.



## Directions:

1. Apply 24 Vdc power - the yellow power led should be on.
2. Push the "No Flow" button to acquire the no-flow signal. The red LED will blink momentarily as it acquires the no-flow signal then go to steady on.
3. Push the "Flow" button to acquire the flow signal. The green LED will blink momentarily as it acquires the flow signal and then remain steady on whenever the flow is >50%.
4. Whenever the flow signal is less than 50% of the acquired "flow" signal the relay will deactivate (red led "ON").
5. The sensor pin is customer replaceable. Contact factory for extra pins or use hardened drill rod .079" diameter.

## Specifications

<b>Output:</b>	Form "A" relay contact 30Vdc @ 1A 115Vac @ 0.3A
<b>Input:</b>	24Vdc @ 0.060a
<b>Indicators:</b>	Yellow LED: Power OK Red LED: No Flow Green LED: Flow All LEDs blinking: No signal acquired or unstable flow

## Order mating plug and cable separately

Length	P/N
2 meters	940010
4 meters	940011
5 meters	940012



Replacement Sensor Pins

Length	P/N
1.125"	940090

## CABLE CONNECTIONS

