

FLOW / NO-FLOW SENSOR LA-206

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GREENBANK ENERGY SOLUTIONS INC.
POWER APPLICATIONS

Flow problems in critical process material results in decreased productivity, plant downtime, lost or out-of-spec product, poor quality control, and extra labor, creating an unnecessary financial burden, even for slightest incident.

The Greenbank Energy Solutions, Inc. Flow/No-flow sensor provides a simple and economic means of actively monitoring material flow in pipes, chutes and feeders.

As material flows, acoustic vibrations are generated due to the impact and friction of the material with itself, the walls of the transport medium, and the Flow/No-Flow sensor probe. These vibrations are transformed by the piezoelectric element into an electrical signal proportional to the amount of material flow. In the event that material flow is interrupted, a relay closure signals an alarm to the operator.

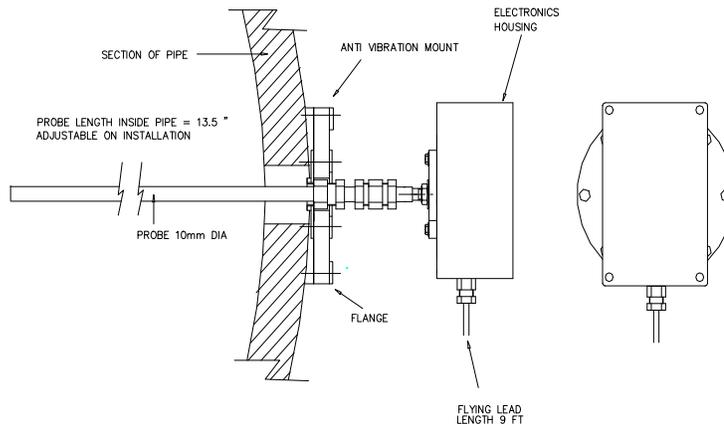


Fig. 1 General assembly drawing of the LA 206 Flow/ No-Flow Sensor

The sensor probe is made of stainless steel to ensure a long life and incorporates an anti-vibration mounting system. The sensor electronics is protected to IP65 specifications to provide worry-free operation in harsh environments. Two adjustments (a baseline no-flow setting and a sensor sensitivity setting) are provided to allow the user to customize the sensor to their particular operating parameters. The modular design allows the probe and electronics sections to be disconnected from each other enabling the removal of the electronics section without having to remove the sensor probe from the material flow. It also permits systems to be designed with an unlimited number of sensors.

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Scope of supply

Piezoelectric Flow / No-Flow Sensor comprising:

Sensor

- Piezoelectric
- Sensor probe anti-vibration mounted.
- Sensor probe constructed of stainless steel
- Diameter of probe: 10mm.
- Length of probe: adjustable on fitting

Electronics

- PCB mounted
- Output relay: 24 VDC NO hermetically sealed reed type, 1.25 A @ 250 VAC
- Temperature range: -40F to +185F (-40C to +85C)
- Protection to IP65 (NEMA 4)
- 9 ft., 4 conductor, screened flying lead

Connection box

- Protection to IP65 (NEMA 4)
- 4 terminals for sensor connection

Junction box

- Protection to IP65 (NEMA 4)
- Single door opening with gland plate on bottom face
- 24 VDC Din rail mounted power supply
- Input: 18 to 264 VAC, 47 to 450 Hz. 3A with over current protection
- Terminals: Din rail mounted, 40 system plus fused power input

Output

- Relay contacts: Normally open