



Flow/No Flow Indicator (Sensor)



Flow/No Flow Controller Model 800A

Acrison®

FLOW/NO FLOW Indicator Model 800 and Controller Model 800A

Acrison's Model 800 Flow/No Flow Indicator, utilizing Doppler technology, has been designed to sense and indicate material flow, or the cessation of material flow, in conjunction with an Acrison feeder.

OPERATION

Typically installed in the right angle downspout of an Acrison dry solids feeder, a low energy signal is transmitted by the Flow/No Flow Sensor into the flow stream of material as it discharges from the feeder. Some of this signal is reflected back to the sensor with a frequency shift caused by movement of the discharging material. This frequency shift, resulting from material movement, is called the Doppler shift and is used by the sensor to determine whether or not material is flowing.

An adjustable time delay, accessed from the Model 800A Flow/No Flow Controller, allows a user to set the amount of time that lapses after a cessation of flow has been detected before an alarm is given. This adjustment is variable up to fifteen seconds.

The user-friendly Flow/No Flow Controller includes an LED read-out, and the time delay adjustment for a no-flow condition. The controller console is equipped with self-monitoring features, including a switch-selectable fail-safe alarm that will indicate an alarm condition should the unit lose power. The controller console also contains a fault indicator that alerts the user should it lose communication with the sensor.

SPECIFICATIONS

The sensor's state-of-the-art Doppler method of flow detection is both accurate and dependable. It is virtually unaffected by humidity, pressure, vacuum, temperature, non-metallic build-up or dust. The sensor itself is adjustment-free and rated intrinsically safe when connected to its control unit (Class II, Groups E, F & G). It is provided in a NEMA 4X aluminum enclosure and will operate over an ambient temperature range of -22 to 158 degrees Fahrenheit. Emission is 24.125 GHz, less than 1mW/cm². Conduit connection is 3/4" NPT. Please contact Acrison for detailed operational parameters.

The Model 800A Controller is supplied in a flange mount, NEMA 4X fiberglass enclosure measuring 8" x 6" x 4" rated for operation over an ambient temperature range of -31 to 158 degrees Fahrenheit. Power requirement is 115 VAC, 50/60 Hz, 5VA. Output contacts (DPDT) are rated at 5A @ 240 VAC or 30 VDC. Requires a four-conductor cable for connecting to the Model 800 Flow/No Flow Sensor.

