

Hazardous Location Options

C1D1 FM Classified Areas

Bionetics offers a line of flow meters and flow switches in a variety of configurations suitable for the most demanding industry needs. Capable of measuring both liquids and gases, *Rheotherm* instruments are commonly installed in hazardous (classified) areas.

The Model 210 flow meter is available in an FM-approved explosion-proof design (*areas only) incorporating integrated electronics for both insertion probe and inline sensors (pictured at top right).

Rheotherm flow meters and flow switches can also be installed using Bionetics' proprietary, agency-approved Intrinsic Safety Barrier (ISB) to satisfy hazardous environment requirements. Both inline and insertion probe sensors can be installed in the hazardous location due to their explosion-proof design. For installation flexibility, the remote electronics and the ISB are housed in a NEMA 4 enclosure which can be located in a non-hazardous area up to 200 feet away from the sensor. If the electronics are to be located within the hazardous area, an optional NEMA 7 explosion-proof housing can be used (both options are shown at bottom right). A purged enclosure may also be used for the electronics if required.



Rheotherm Model 210 with FM approved integrated electronics and sensor package shown as insertion probe and inline sensor configurations



Sensors with remote electronics utilize Bionetics Intrinsic Safety Barrier in either remote NEMA 4 or explosion proof NEMA 7 enclosure

FM Classifications

*Class I, Division 1, Groups B,C, and D

*Class II, Division 1, Groups E, F, and G

*Class III, Division 1

Class I, II, III, Division 1, Groups A-G