

Demand Moore Reliability

SPA2IS Provides High Temp Shutdown for Chemical Vessel

Chemical and specialty chemical processing often involves monitoring and controlling processes in hazardous areas that are saturated with combustible gasses and vapors. Most times facilities will classify such a production area as Class I Div 1 or Zone 0/1 due to the continuous presence of a flammable atmosphere. In cases where intrinsic safety (IS) is chosen for the method of protection, users must ensure they utilize the proper IS barrier and control equipment.

This mixing tank is located in a Class I Div 1 location and required that a high temp switch be installed as a layer of protection to prevent overheating and rupturing of the vessel. In most cases a separate IS barrier would need to be installed between the alarm switch and the T/C that is monitoring the mixing vessel temperature. However, the SPA2IS has a built in IS barrier on the front end that limits high energy levels from ever reaching the mixing vessel area.

This way the customer saves time and money by not having to purchase a separate IS barrier, reduces space requirements and the number of wiring terminations. The SPA2IS now provides a HIGH and HIGH HIGH temperature alarm while also re-transmitting the temperature to a remote PLC.

