

How to deal with the pressure difference alarm of the battery cabinet





Overview

Do you need a differential pressure alarm?

The regulations also require a system of alarms to warn the operators in case the differential pressures collapse (for example, due to a failure of air supply). This is all straightforward—most facilities follow it. But then comes a difficult turn. Differential Pressure Measurement Across Rooms of Different Grades.

How should a battery room be designed?

Battery rooms shall be designed with an adequate exhaust system which provides for continuous ventilation of the battery room to prohibit the build-up of potentially explosive hydrogen gas. During normal operations, off gassing of the batteries is relatively small.

How much pressure difference should be maintained between rooms?

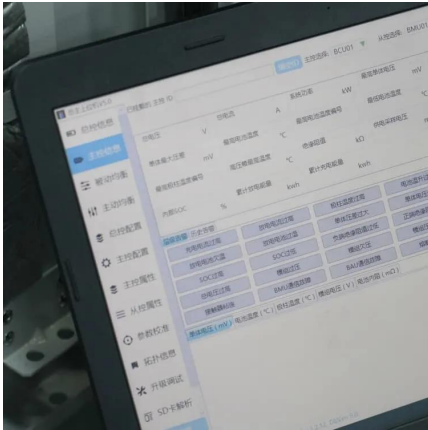
According to Annex-1 (EU GMP), a minimum of 10 Pa pressure difference should be maintained between rooms of different grades. The regulations also require a system of alarms to warn the operators in case the differential pressures collapse (for example, due to a failure of air supply). This is all straightforward—most facilities follow it.

Should a hydrogen gas detector be installed in a battery room?

Consider the hydrogen gas detection and alarm system interlocked to the exhaust fans. Local codes usually do not require hydrogen and other gas detectors to be installed in dedicated battery rooms. If used, hydrogen detectors should be set to alarm at a maximum of 2% concentration.



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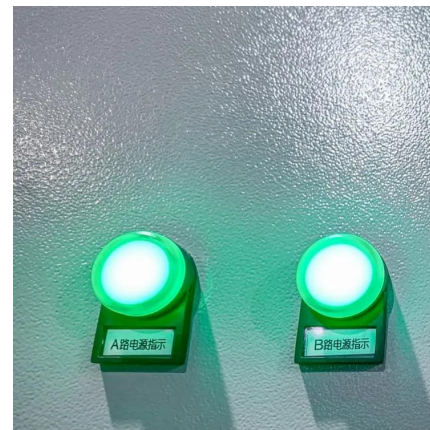


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