Delta Instrument® LLC

Dewpoint Measurement Application #9

Ozone (O_3) Generators

Application Moisture is monitored in the inlet air to ozone generators.

Problem Compressed air is typically dried via twin tower regenerative air driers. This dry air is fed into an electric field where the oxygen molecules are split and then re-formed into ozone (O_3). The inlet air must be kept very dry for this process to work properly. Typically a –100ºF dewpoint CDA dryer is used. Ozone is very corrosive and will also react with excessive levels of moisture to cause heavy corrosion.

Solution Continuous monitoring of the dry air to warn of a dryer failure. Normal measurements are very low, in the range of –100ºF or lower. The sensor should be capable of monitoring down to –112ºF or better.

Equipment Any in-line instrument will work for this application, providing it is set up with either the –112ºF or –166ºF sensors (–80ºC or –110ºC).

Advantages All Delta sensors will pick up a wet-up condition or dryer failure very rapidly, and warn the operator before product degradation or system damage occurs.

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