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# **Dewpoint in Cryogenic Gases**

**Instrument: In-Line/Portable Dewpoint** 

# **Description:**

Cryogenic gases are normal atmospheric components which have been liquefied, separated and purified. Although they may be supplied as a high pressure gas, most are shipped to the customer in a liquid state and vaporized on site. The primary cryogenics are 02, N2, Ar. H2 and He are supplied in much smaller quantities.

#### **Problems:**

Cryogenic gases are purchased for their particular properties. They may be user as an inert blanket, in a chemical reaction or as a catalyst. Due to this usage, they are sold in various degrees of purity. Moisture (H20) is obviously an impurity, although on a very small scale. Moisture levels will, typically, be in the 0-5 PPM range.



### **Points to Consider:**

Due to the purity of the gas and cleanliness of the application, there are few problems with this application. The sensor should be in a bypass after the vaporizer and not directly in the flow. This will warm the sample and insure that the flow past the sensor is not excessive.

## **Sensor Range:**

All measurements are made with the XT-100 (-149- +68°F).



