

APPLICATION NOTE

Cryogenic Gases Dewpoint Application



Featured Product
XTR-100

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 O₂, N₂, Ar, H₂ and He are supplied in much smaller quantities.

Problems

Cryogenic gases are purchased for their particular properties. They may be used 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 (H₂O) 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 XTR-100 (-149 - +68°F).

Contact Person(s)

Gas Producer – Instrument Engineer
Manufacturing Engineer
Plant Engineer

PREMIUM INSIGHTS – GAIN REAL-TIME INSIGHT INTO YOUR PROCESS

Process Insights' products and solutions deliver innovative and differentiated analysis and measurement solutions and technologies that add high value to our customers and protect the environment.

Our commitment is to deliver smart and affordable innovation that optimizes process, improves safety, and transforms our world.

CENTERS OF EXCELLENCE

PROVIDING PROVEN SOLUTIONS FROM A GLOBAL TECHNOLOGY LEADER



COSA Xentaur

4140 World Houston Parkway
Suite 180
Houston, TX 77032
USA
+1 713 947 9591
www.cosaxentaur.com
service@cosaxentaur.com

Process Insights – The Americas

4140 World Houston Parkway
Suite 180
Houston, TX 77032
USA
+1 713 947 9591
info@process-insights.com

Process Insights – EMEA

ATRICOM
Lyoner Strasse 15
60528 Frankfurt
Germany
+49 69 20436910
info@process-insights.com

Process Insights – APAC

Wujiang Economic and Technology
Development Zone
No. 258 Yi He Road, 215200 Suzhou
Jiangsu Province China
+86 400 086 0106
info@process-insights.com

OUR PREMIUM GLOBAL BRANDS

