Panametrics
a Baker Hughes business

ep MISURA & AUTOMAZIONE

Application note

Moisture in Inert Blanket Gas for Polymers

Benefits:

The advantages of using the Panametrics aluminum oxide moisture sensor are

- the sample system design is fairly straightforward and the technology is far more forgiving of liquid condensation than a chilled mirror hygrometer;
- the sensor can be installed as a transmitter; or
- a single multi-channel analyzer can accept inputs from multiple sensors.

Summary

Moisture is measured in inert blanketing gases in the production of polymers.

Application

The presence of moisture in an inert blanket gas used for the protection of poymeric materail causes oxidative degradation. This results in an unusable end product.

Challenge

In the past, a chilled mirror hygrometer was typically used to make this measurement. Due to the presence of condensing hydrocarbons, the measurement system required an elaborate sample system. Despite best efforts, the chilled mirror hygrometers required frequent cleaning maintenance.

Solution

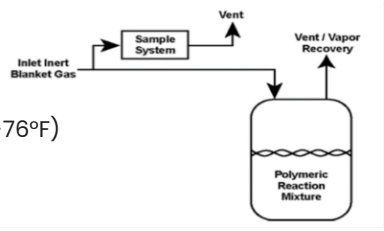
The Panametrics aluminum oxide moisture sensor can monitor the moisture content of the dry gas at the out let of the dryer system feeding the reactor and can monitor the moisture on the vent or vapor recovery line. Simple standard sample system designs are available for both applications.

Application specifications

Moisture Content Range: 0.001 to 10 ppmv

Dew Point Range: -110° to -60°C (-166° to -76°F)

Operating Pressure: 4.7 psia (101.3 kPa)



Per avere più informazioni
CONTATTACI

EP srl
41124 Modena
Via S. Faustino, 155/P

Tel. +39 059 35 76 00
www.epsas.it
ep.ma@epsas.it

Baker Hughes

Copyright 2020 Baker Hughes Company. All rights reserved.
BHCS34616 (02/2020)

panametrics.com