Challenge

For process control of conveyor dryer applications the humidity (water in air/gas) is a crucial determining factor.

We are looking for a ready to use sensor with a low/simple calibration procedure.

It needs to be a reliable solution for an industrial food processing environment.

Requirements

- Maximum Air/Gas Temperature: 200°C
- Gas/Air Composition: May contain dust, organic solvent or products of combustion
- Pressure: Atmospheric +/- 50 mm H2O
- Range of Absolute Humidity: 20-300 g of water/ kg dry air
- Accuracy: Wet Bulb +/-1°C
- Repeatability: +/-1°C for minimum of 1 year
- Output Signals: 4-20 mA (proportional to wet bulb reading)
- Housing Options: IP54, IP55, IP65, Explosion proof