Application

-100… +20°C td OEM dew point sensor replacement for brand name desiccant dryer

Goal

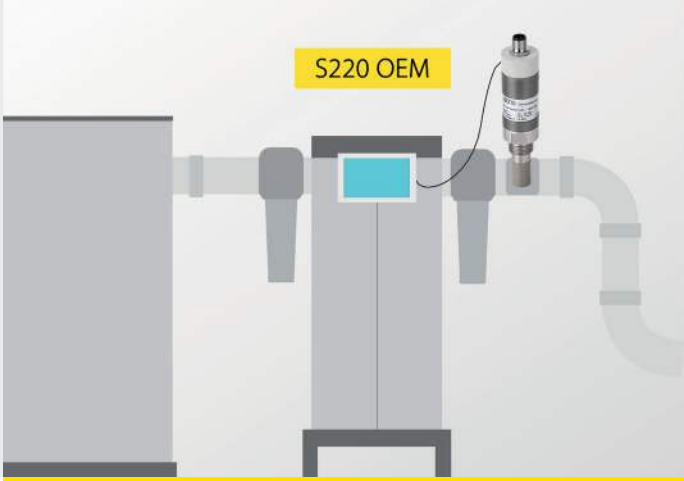
Find a suitable replacement sensor for OEM sensor on adsorption dryer

Sector

Dryer Manufacturing Industy and Service

Customer

Dryer Manufacturer



Optimizing Dew Point Sensing for Improved Drying Efficiency

In the dryer manufacturing industry

Challenge

A leading player in industrial drying solutions, faced challenges in maintaining precise dew point measurements across their drying processes. The performance limitations of their existing built-in dew point sensors resulted in inconsistent drying outcomes, affecting product quality and energy consumption.

Solution

After thorough research and evaluation, the Dryer Manufacturer decided to replace their built-in dew point sensors with the SUTO iTEC S220 OEM Dew Point Sensor. The S220 OEM was chosen for its superior performance characteristics and compatibility with the company's existing setup:

- **Ease of Replacement:** The S220 OEM sensor's UNF thread compatibility ensured a seamless and hassle-free replacement process, minimizing disruption to the manufacturing process.
- **Plug & Play Integration:** The sensor's Analog Output Connection (4-20 mA, 2-wire) simplified integration with existing control systems, streamlining communication and reducing installation complexity.
- **Analog Scaling Flexibility:** The Analog Scaling feature allowed the sensor's output signals to be tailored to the company's specific control system requirements, enhancing compatibility and customization.
- **Higher Accuracy:** Higher level of accuracy, ensuring precise dew point measurements even in challenging operating conditions.
- **Long-Term Stability:** Unlike the previous sensors, the S220 OEM exhibited exceptional long-term stability over the full range of -100°C to +20°C. This was essential for maintaining consistent performance over extended periods of operation.

Products in Use

S220 OEM Dew Point Sensor
With UNF Thread

Implementation & Results

The transition to the SUTO iTEC S220 was executed smoothly. The company's engineers appreciated the straightforward installation process made possible by the e thread compatibility. The Plug & Play Analog Output Connection facilitated rapid integration, minimizing downtime during the upgrade.

With the SUTO iTEC S220 in place, the Dryer Manufacturer achieved impressive results. The sensor's higher accuracy and long-term stability drastically improved drying conditions, ensuring consistent product quality while optimizing energy consumption. The new sensor's precision contributed to more controlled and efficient drying processes, aligning with the company's commitment to excellence.

Conclusion

By embracing the SUTO iTEC S220 OEM Dew Point Sensor, the Dryer Manufacturing Company effectively addressed their dew point sensing challenges. The transition led to remarkable improvements in drying efficiency, product quality, and energy usage.

This case study exemplifies how strategic sensor selection and innovative technology can revolutionize industrial processes, highlighting the importance of precision, stability, and seamless integration in achieving operational excellence.

Be smart. **Measure it.**