

Application

Monitor the humidity levels of compressed air supply in CNC-Grinding machines.

Goal

Ensure the process and product quality by preventing humidity to form water droplets

Sector

OEM - Manufacturing

Customer

CNC-Grinding Maschine Manufacturer from Europe



Ensuring a High Process and Product Quality by Having a Constant Dew Point Monitoring

built directly in the CNC-Grinding Machines

Overview

Modern manufacturing plants are relying on mostly full automated and CNC controlled machine-parks. CNC-Machine manufactures are delivering machines to their end-clients specifying a certain compressed air quality to be supplied to the machine.

This means the end-client is responsible delivering the air quality as specified. If the end-client is not sufficiently taking care of that, it might cause false productions, where in the first impression the machine-manufacturer would need to explain the root cause.

Even if the end-client is responsible in the first place, by delivering air which does not meet the requirements, it is still would cast the machine-manufacturer in a negative light, since his machine does not produce the quality expected by the end-client.

Approach

How SUTO Dew Point Sensor help a CNC-Grinding Maschine Manufacturer to keep their product and process at the highest levels of quality.

In order to keep the production process on the highest level at all time, the Maschine Manufacturer did set up a Dew Point Measurement at the compressed air inlet on their CNC grinding machines. With this, they enabled to constantly monitor the humidity levels of the compressed air supplied by the end-client.

The dew point monitoring system has two defined alarms. The pre-alarm notifying the machine operator that the air humidity is getting too high and the main-alarm, which will shut down the air inlet and stop the machine to prevent any further damage to the product and the machine.

To set up this dew point monitoring, the CNC-Maschine Manufacturer is relying on the SUTO S217 OEM Dew Point Sensor, which is constantly measuring the Dew point, as well as humidity and temperature. Due to the compact size, the S217 could be easily integrated into the internal compressed air conditioning system, where it does not take up much space.

The S217 OEM gives the production team a much clearer knowledge of the air supplied by their end-clients and enables them to ensure that their grinding machines are constantly producing at the highest quality possible.

Conclusion

By constantly monitoring the Dew point at the compressed air supply, by integrating the compact S217 OEM Dew Point Meter directly into their grinding machines, not only the Maschine Manufacturer but also the end-clients have a simple but effective system to ensure the process safety and therefore keeping the production output at highest standards.

Product in use



S217 OEM Dew Point Sensor
-20 ... +50 °C Td

The S217 OEM dew point sensor provides reliable and long term stable dew point monitoring in medium range applications down to -60 °C Td.



Be smart. Measure it.