

# Demand Moore Reliability

## Monitoring Plenum Air Temperature with Averaging Sensors

Manufacturing of semiconductor wafers requires that clean room temperatures are controlled to very precise temperature and humidity levels. Many times the air temperature in HVAC plenums is only monitored with one single point probe or element. This can lead to erroneous readings due to temperature stratification and hot spots within large air handling ducts or plenums.

To get the most accurate reading for your clean rooms use an averaging RTD sensor that covers the entire plenum and provides your monitoring system with a true average temperature. The Moore Industries averaging sensor is one continuous RTD vs multiple RTDs in a sheath. This provides the most accurate average profile air temperature within the plenum or air duct.

