

Variable Density Wind Tunnel

How does an anemometer react to extreme conditions – for example at a site in over 1000m height? In the past such questions were answered by applying numeric models. Using our variable density tunnel we can now reliably measure –not just simulate!- these influencing factors – and in terms of wind sensor classification we are the first worldwide to do so.

Providing a variable ambient pressure between 0.7 and 1.3 bar, the tunnel allows basic research under realistic conditions. Thus, the response of wind sensors to different densities can be reliably determined. In addition to creating different air densities, the tunnel can also be used for measurement in different temperature ranges. Measurements in our density tunnel provide you with vital information on the design inherent responses of your sensor to upon different environmental impacts.

Technical Facts:

- Air Ambient pressure range: 0.7-1.1 bar
- Temperature: -20°C to 40°C
- Test Section Measurements: 0.5 m x 0.5 m x 0.9 m
- Contraction Rotation: 3.21:1
- Maximum Velocity: 15 m/s

