

Outside Air Static Pressure Probe

The Outside Air (OSA) Static Pressure Probe is used to measure the atmospheric pressure outside of a building. This pressure can be used as a reference when measuring the building static pressure, which is simply the pressure difference between the inside and outside of the building and is typically less than 0.1 "wc.

The OSA Pressure Probe is used in conjunction with a differential pressure transmitter. Connect the transmitter low pressure port to the OSA probe and the transmitter high pressure port to a suitable pickup within the building to effectively measure the differential pressure between the inside and outside of the building.

The OSA probe will provide an accurate outdoor static pressure to the transmitter by significantly reducing the dynamic effects of the wind action. By creating a laminar flow of air through the horizontal tube and then measuring the pressure perpendicular to the air flow at the vertical tube, the true outdoor static pressure is obtained. An internal brass filter in the pickup further reduces the pressure dynamics and prevents blockages due to insects, pollen and moisture.

The OSA probe can be conveniently mounted directly on the side of the building using two screws and the 1/4" air line is simply connected to the barbed coupling. Ensure the assembly is mounted such that the horizontal tube is parallel with the ground.

