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Fluid measurement devices, i.e. Air flow meters and water flow meters, have come to become essential components in several industrial and non industrial applications. They find use in electricity, automobile sector, industrial sector, production sector and are also increasingly being used for small scale applications in agriculture. Owing to amounts of research being carried out to develop efficient flow measurement technologies, flow devices today have become highly application specific. Choosing a device must be done only after careful evaluation of the application and the working conditions that govern the flow (i.e. pressure, temperature, viscosity).

Choosing Air flow meters

There are many technologies available to measure gaseous or air flow. Air flow meters express their readings typically in kilograms per second. It must be understood that the device only measures the flow and not the actual volume itself passing through it. The volume can however be arrived at by considering a time frame. Amongst the most commonly used technologies, Vortex and Variable area flow meters are finding increasing acceptance, even while older technologies like thermal and differential are still in vogue. Continuing research and improvement in materials technology, has made flow meters stand a wide range of temperatures and pressures.

Choosing water flow meters

Water flow meter than can stand a rapidly changing temperatures and pressures, besides varying viscosity and relative density, are highly desirable. There are many types of liquid flow meters available, among which some of them can also be used for gaseous or air flow measurements. Coriolis, Magnetic, Positive displacement, Turbine, and Ultrasound are the commonly applied technologies to measure liquid flow while Variable area, Vortex, and Differential can be used to measure both liquid and gaseous flows. Flow meters for water measurements must take into account the chemical composition of the liquid. The chemical composition of water including the salinity content can vary erratically, which over time can lead to deposits on the flow measurement device. This can lead to malfunctioning of the flow measurement meter.

Buying quality air flow meters and water flow meters online

The reputation of the manufacturer is the most important consideration when buying flow meters online. A good online vendor will provide required technical information upfront and will also give an overview of the technology. A reputed organization will usually serve sectors like marine, chemical and automotive, thus lending itself to easy inquiry. You can also seek assistance on calibration and can be certain of good service. For large scale applications, you would want to make bulk orders, which only a large scale manufacturer can cater to. Ease of use, presence of tools for convenient calculations are hallmarks of a good web portal and also serve as a testimony to the quality of service being provided by the vendor/manufacturer.

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Tom Genack has provided more information about measurement technologies. He has more knowledge and gives the good information about a oil flow Meter, a Air Flow Meter and more. For more info â€“ http://www.smartmeasurement.com

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