

Electromagnetic Flow Meter: A Critical Instrument For Accuracy

An electromagnetic flow meter is something that is very necessary for every company that runs water or wastewater treatments. This type of flow meter is usually installed in treatment plants, mainly to determine the measurement of instantaneous and cumulative water flow that runs through the treatment system.

Up to date, there are about 20 or more manufacturers who make this electromagnetic meter, which are sold commercially to big companies, as well as any individuals who are in need of this flow meter in their house. Commonly also known as magmeter, this electromagnetic meter is a good investment to companies generally. This is because this meter provides the accurate measurement of water flow in the plant, both instantaneous and cumulative, as said before. As such, owners can always be aware of their water system, and need not worry about wastage or leakage thus.

Picking The Right One

There are many characteristics of an electromagnetic flow meter which needs to be distinguished to buy the correct and most suitable one for your water treatment system. You basically need to understand the qualities and features available among the different flow meters sold.

Basically when you are buying an electromagnetic flow meter, the most important feature is the exterior, besides the internal mechanism itself. You need to look out for the most durable housing of the electromagnetic meter, so that they last against harsh environments, aging, dust and moisture. Also, in any treatment plants, this electromagnetic flow meter is usually installed buried inside the water, and in such cases, you need to get a flow meter with the entrance to it highly protected, to counter sensor failure during operation due to water ingress.

Besides, you also need to check on the accuracy of the meter before buying as regards to low flow situations. A not-so-good electromagnetic meter may fail to give accurate reading when the water velocity is low. A better option is to buy an electromagnetic flow meter with digital signal processing power, which comes with an in-built amplifier, which would have no problem giving you the accurate flow rate even at very low velocity.

Also, modern electromagnetic flow meters come built in with empty pipe detection technology as well these days. This is a very good thing, because previously such meters needed the pipe to be full with liquid, then only accurate reading can be given, or else the meter performance would be terrible. With this new technology, this is a historical problem indeed.

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About the Author

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