

Vortex Flow

digitalYEWFLO

Measurement Principle

When a shedder bar is placed in a flow, Karman vortices are generated on the downstream side of the bar. The Karman vortices are detected by two piezoelectric elements installed in the upper part of the shedder bar. The vortex frequency is proportional to the flow velocity in a specific range of Reynolds numbers. Therefore, flow velocity or flow rate can be determined by measuring vortex frequency.

Features

Easy installation, with flange or wafer process connections.

No zero adjustment is needed.

No moving parts make Vortex Flowmeters highly durable and reliable.

The sensing element and bluff body are combined in a single shedder bar, minimizing the pressure loss. The

Flowmeter is leak-free with a high degree of safety.

Robust construction of the shedder bar makes measurement at high temperatures (max. 450°C) and high

Pressure possible.

Multi-Variable Type

The world's first two-wire Multi-variable Type (with built-in temperature sensor) can directly output the mass flow rate of saturated steam.

For more detailed information please see attachments under the product on the website.