Reliable vortex flow meter for water-based applications

ifm’s new SV Series vortex flow meter is designed to simultaneously monitor flow rate and detect fluid temperature of circulating water in industrial applications.

Encased in a compact robust housing for harsh environments, the meter utilizes the vortex flow principle. Behind a blunt body (or shedder) integrated in a measuring pipe, the flowing medium generates swirling vortices depending on the velocity. A piezoceramic sensor detects these vortices. Since the cross-section of the pipe is known, the number of the vortices determines the flow rate, independent of the medium’s pressure and temperature fluctuations. The vortex flow technology enables a simple sensor design that can be easily manufactured at a very low cost.

At-a-glance display and easy installation takes less than five minutes

The meter provides a high contrast TFT LCD digital display that can be customized to best suit the application. The setpoints are established through a simple pushbutton menu by using scroll and enter buttons. The meter can be programmed to provide switching output (flow rate and/or temperature), flow frequency, or analog output (flow rate or temperature).

The meter’s NPT process connection is easy to mount in line and fits either ½ inch or ¾ inch piping.

With features that ensure reliability and convenience, ifm’s compact SV Series Vortex flow meter offers an excellent price / performance value with a starting list price of $275.00.

In welding applications, it is essential to control the flow rate and temperature of cooling water to prolong the life of the welding tip and to assure that the weld cools rapidly for optimum quality. The SV Vortex flow meter is an ideal solution.
**SV Series Vortex Flow meters**

<table>
<thead>
<tr>
<th>Type Description</th>
<th>Part No.</th>
<th>List Price (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M12 Micro DC, 2 m, PUR cable</td>
<td>EVC002</td>
<td>$13.50</td>
</tr>
<tr>
<td>M12 Micro DC, 5 m, PUR cable</td>
<td>EVC005</td>
<td>$13.50</td>
</tr>
</tbody>
</table>

**Technical Specs**
- Operating voltage: 18…30 V DC
- Current consumption typ. 25 (at 24 V) mA
- Accuracy flow measurement 2 % of full range
- Accuracy temperature monitoring ± 1.8 °F (1 °C)
- Medium temperature 14…194 °F (-10…90 °C)
- Protection rating IP 65 / IP 67
- Max. pressure 175 psi
- Wetted parts Stainless steel (316L / 1.4704), PC, PBT / PC-GF 30, PPS, TPE-U

**Wiring diagram**

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