Colibrys VS1000 Accelerometer: Technology Analysis

Description: Safran Colibrys is the leading European supplier of high-performance silicon-based MEMS providing long-term bias stability under harsh environments. In a global market worth around $100M in 2016, high-performance silicon-based MEMS accelerometers address a wide range of applications, from commercial aerospace applications to the defense market. Amongst these, the industrial market remains attractive and the most dynamic. Thanks to performance improvements and reduced size and cost, more opportunities are appearing.

The VS1000 series consists of vibration sensors based on Colibrys’ MEMS accelerometer. They offer the best match for low- to medium-frequency sensing, as well as the best performance stability, with shock resistance and the lowest non-linearity and noise available on the market. The VS1000 is available in various acceleration ranges, from ±2g to ±200g.

The VS1000 features an innovative low-noise application specific integrated circuit (ASIC) developed by HMT microelectronic AG and manufactured in a European foundry with a bipolar CMOS-DMOS process using Deep Trench Isolation (DTI). The ASIC is highly integrated in order to use only one die compared to four dies in the previous versions.

The MEMS die uses a capacitive detection principle and is manufactured by Colibrys using its mature 3-stack bulk micromachining process, providing a very stable MEMS device. The ASIC and MEMS dies are hermetically sealed in a ceramic package to ensure robustness and durability.

Typical applications for the VS1000 accelerometer include railway technology, testing and process control. Key features offered by the components are: Large and flat frequency response, exceptional bias and scale factor temperature stabilities, repetitive high-shock resistance enhanced by a smart overload system and lowest noise of 7 µg/√Hz in band for the ±2g range.

The VS1002 (±2g) and the VS1200 (±200g) are analyzed and compared in the report in order to highlight the differences at the process level. Also, a comparison with the Colibrys MS9000 accelerometer is provided.

Ordering:
Order Online - http://www.researchandmarkets.com/reports/4039377/
Order by Fax - using the form below
Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct.

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>Colibrys VS1000 Accelerometer: Technology Analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web Address:</td>
<td><a href="http://www.researchandmarkets.com/reports/4039377/">http://www.researchandmarkets.com/reports/4039377/</a></td>
</tr>
<tr>
<td>Office Code:</td>
<td>SCWPBN5</td>
</tr>
</tbody>
</table>

Product Format
Please select the product format and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PDF and Excel -</td>
<td>USD 3940</td>
</tr>
<tr>
<td>Enterprisewide:</td>
<td></td>
</tr>
</tbody>
</table>

* The price quoted above is only valid for 30 days. Please submit your order within that time frame to avail of this price as all prices are subject to change.

Contact Information
Please enter all the information below in BLOCK CAPITALS

<table>
<thead>
<tr>
<th>Title:</th>
<th>Mr ☐  Mrs ☐  Dr ☐  Miss ☐  Ms ☐  Prof ☐</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name:</td>
<td></td>
</tr>
<tr>
<td>Email Address:</td>
<td>*</td>
</tr>
<tr>
<td>Job Title:</td>
<td></td>
</tr>
<tr>
<td>Organisation:</td>
<td></td>
</tr>
<tr>
<td>Address:</td>
<td></td>
</tr>
<tr>
<td>City:</td>
<td></td>
</tr>
<tr>
<td>Postal / Zip Code:</td>
<td></td>
</tr>
<tr>
<td>Country:</td>
<td></td>
</tr>
<tr>
<td>Phone Number:</td>
<td></td>
</tr>
<tr>
<td>Fax Number:</td>
<td></td>
</tr>
</tbody>
</table>

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:

Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:

Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code:

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp