Compact Precision
Weidmüller’s ACT20P Bridge Isolated Strain Gauge Converter.

Exact Measurement
- 4 or 6-wire sensor connection method and very high accuracy (0.05%) for precise signal processing

Conversion/Isolation
- Converts strain gauge input to standardized isolated analog output

On-Site Calibration
- Push buttons provide for simple and reliable on-site adjustment of different load cells

Protection Against Transients
- 5.7kV isolation between input, output and power supply secures PLC input

Tare Compensation
- Simple compensation of the empty (tare) weight or zero offset, manually via push button on front panel or external connection via PLC output

Global Approvals
- CE, cULus, RoHS
Competitive Position

<table>
<thead>
<tr>
<th>Company</th>
<th>Product</th>
<th>Operating Temperature Range</th>
<th>Power Supply</th>
<th>Housing Width</th>
<th>mA output Test Point</th>
<th>Auto Tare Function</th>
<th>Number of Strain Gages</th>
<th>Bridge Excitation Voltage</th>
<th>Accuracy</th>
<th>Approvals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weidmüller</td>
<td>ACT20P-Bridge-S</td>
<td>-40°C ...+70°C</td>
<td>10 - 60 VDC</td>
<td>22.5 mm</td>
<td>Yes</td>
<td>Yes</td>
<td>4</td>
<td>5V or 10V @ 120mA max.</td>
<td>± 0.05% of span</td>
<td>cULus, CE</td>
</tr>
<tr>
<td>Acromag</td>
<td>S51T-0500</td>
<td>-25°C ...+70°C</td>
<td>12-36 VDC</td>
<td>26mm</td>
<td>No</td>
<td>Yes</td>
<td>4</td>
<td>4 - 11V @ 120mA max.</td>
<td>± 0.1% of span</td>
<td>UL, cUL, CE</td>
</tr>
<tr>
<td>Action Instruments</td>
<td>WV448</td>
<td>0°C ...+60°C</td>
<td>9-30 VDC</td>
<td>17.5mm</td>
<td>No</td>
<td>No</td>
<td>4</td>
<td>1 - 10V @ 120mA max.</td>
<td>0.065% of full scale</td>
<td>cUL, CE</td>
</tr>
<tr>
<td>Wilkerson Instrument</td>
<td>DM4051</td>
<td>-10°C ...+60°C</td>
<td>115VAC / 230VAC</td>
<td>25.9mm</td>
<td>No</td>
<td>No</td>
<td>1</td>
<td>10V @ 35mA max.</td>
<td>± 0.1% of span</td>
<td>UR, cUR</td>
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</tbody>
</table>

Availability

<table>
<thead>
<tr>
<th>Type</th>
<th>Termination</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT20P-Bridge-S</td>
<td>Screw</td>
<td>1067250000</td>
</tr>
</tbody>
</table>

Applications

Strain gauges are used for a variety of measurements such as weight, force, tension, pressure and torque.

Applications are found in tank and silo level and volume control, weighing and conveying materials, engine dynamometer testing and monitoring, packing and bagging of powders and granular materials.

Example—Measuring Weight

Information

Information is available for download on the web at www.weidmuller.com. Printed catalog versions are also available and can be ordered online.

Sales Tool | Description
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1203510000 | Catalog 4.1, Analog Signal Conditioning