The 1734sc-IE2CH/IE4CH Input Modules provide remote I/O with full analog input capability, and the benefit of HART (Highway Addressable Remote Transducer) protocol in one I/O module.

Reduce System Costs
The 1734sc-IE2CH/IE4CH modules maximize your system performance by combining real-time HART data acquisition with standard analog acquisition and control—at a fraction of the cost. Simplify commissioning, operation, and maintenance of your HART devices. You may use the data as the foundation of your asset management system.

- Two/four channels of analog input and HART.
- The module also acts as a HART master, allowing communication with HART field devices.
- DTM and CONNECTS support provides an interface to your asset management software.
- Channel-selectable filtering for fastest analog update time and noise rejection.
- User calibration and scaling.
- Fault reporting.
### 1734sc-IE2CH/IE4Ch Specifications

<table>
<thead>
<tr>
<th>Input Types</th>
<th>2/4, single-ended C plus HART</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Ranges</td>
<td>4-20 mA plus HART</td>
</tr>
<tr>
<td>Resolution</td>
<td>16-bit</td>
</tr>
<tr>
<td>HART Dynamic Variables</td>
<td>PV, SV, TV, FV</td>
</tr>
<tr>
<td>Advanced Features</td>
<td>7 filter frequencies (individually selectable by channel); full auto-calibration; on-board error checking.</td>
</tr>
<tr>
<td>Update Times</td>
<td></td>
</tr>
<tr>
<td>4-Channel Sample Time (ms)</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td></td>
<td>488</td>
</tr>
<tr>
<td>2-Channel Sample Time (ms)</td>
<td>128</td>
</tr>
<tr>
<td>Communication Formats</td>
<td>Engineering units (scalable)</td>
</tr>
<tr>
<td>Electrical Isolation</td>
<td>50 VDC field-wiring-to-backplane; 50 VDC field-wiring-to-chassis-ground; ±10 VDC channel-to-channel isolation.</td>
</tr>
<tr>
<td>Input Impedance</td>
<td>250 ohm, typical</td>
</tr>
<tr>
<td>Input Overvoltage Protection</td>
<td>+28.8 VDC continuous</td>
</tr>
<tr>
<td>Input Overcurrent Protection</td>
<td>28 mA continuous</td>
</tr>
<tr>
<td>Backplane Current Required</td>
<td>20mA @ 24 V max</td>
</tr>
<tr>
<td></td>
<td>12 mA @ 5 V max</td>
</tr>
<tr>
<td>Common Mode Rejection</td>
<td>&gt;-150 dB @ 50/60 Hz</td>
</tr>
<tr>
<td>Normal Mode Rejection</td>
<td>&gt;-150 dB @ 50/60 Hz</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td></td>
</tr>
<tr>
<td>Operational Temperature</td>
<td>-20 °C - 55 °C (-4 °F - 131 °F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40 °C - 85 °C (-40 °F - 185 °F)</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>5% - 95% (non-condensing)</td>
</tr>
<tr>
<td>Thermal Dissipation</td>
<td>1.00 Watt, maximum</td>
</tr>
<tr>
<td>Accuracy</td>
<td>Absolute: ± 20 uA at 25 °C; Drift with temperature: 50 uA max 20 °C - 55 °C, 30 ppm typical</td>
</tr>
<tr>
<td>Calibration</td>
<td>Factory calibrated; user calibration supported</td>
</tr>
<tr>
<td>Certifications</td>
<td>UL/cUL Listed ANSI ISA 12.12.01 (Class I, Div 2, Groups ABCD), CE</td>
</tr>
<tr>
<td>Recommended Cable</td>
<td>For RTD, mV, V, or mA inputs: Belden 8761 or equivalent</td>
</tr>
<tr>
<td>Terminal Base</td>
<td>1734-TB. 1734sc-IE4CH is NOT compatible with a 12-pin base</td>
</tr>
</tbody>
</table>