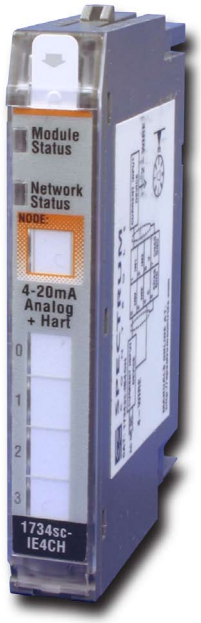
SPECTRUM CONTROLS

# 1734sc-IE2CH/IE4CH
# 2 or 4-Channel HART Protocol Analog Input Module

**for Allen-Bradley Point I/O**




- Two or four channels of current and HART protocol input provide a flexible solution for process applications
- 4 to 20mA current input, 16 bit resolution, 2/4 wire support
- Auto-scanning of HART variables (PV,SV,TV,FV)
- HART Modem per channel
- Hart Pass-Through Messaging
- Seven module filter settings
- Fault reporting
- 24V Fault Protection
- Removal and insertion under power (RIUP)
- DTM and CONNECTS support allowing interface to your asset management software

## Reduce System Costs

The 1734sc-IE2CH/IE4CH module maximizes your system performance by combining real-time HART data acquisition in conjunction with standard analog acquisition and control—at a fraction of the cost. Simplify commissioning, operation and maintenance. The data may be used as the foundation for your asset management system.

## State-of-the-Art Features

The 1734sc-IE2CH/IE4CH Analog Input Module provides remote I/O with full analog capability and the benefit of HART (highway addressable remote transducer) protocol in an I/O module.

The module offers four channels of analog input each easily configured for current or current plus HART signals. The 1734sc-IE2CH/IE4CH also act as a HART master, allowing communication with HART field devices. HART data is available directly on the Point I/O network.

The Spectrum Controls 1734sc-IE2CH/IE4CH is compatible with Allen-Bradley Point I/O (Ethernet and ControlNet) communication adapters. It offers the functionality of dedicated analog input modules without compromising performance or price.

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Rockwell Automation Encompass™ Product Partner Global

# 1734sc-IE2CH/IE4CH
# 2 or 4-Channel HART + Analog Input Module

**for Allen-Bradley Point I/O**

| | |
|---|---|
| Inputs per Module | 4-20mA plus HART |
| Module Location | Point I/O Communication Adapters |
| HART Dynamic Variables | Primary w/Engineering Units<br>Secondary w/Engineering Units<br>Tertiary w/Engineering Units<br>Fourth w/Engineering Units |
| Advanced Features | 7 filter frequencies; on-board error checking |
| Update Times<br>4 Channel Sample Time (RTS msec)<br><br>2 Channel Sample Time (RTS msec) | **50/60Hz 50Hz 60Hz 100Hz 120Hz 240Hz 480Hz**<br>248 248 208 128 108 58 33<br><br>128 128 108 68 58 33 21 |
| Communication Formats | Engineering units (scalable) |
| Electrical Isolation (continuous) | 50 Vdc field-wiring-to-backplane<br>50 Vdc field-wiring-to-chassis-ground |
| Input Impedance | 250 ohm, Typical |
| Input Overvoltage Protection | +24 Vdc |
| Input Overcurrent Protection | 28mA continuous |
| Common Mode Rejection | 115 dB @ 50/60 Hz |
| Normal Mode Rejection | 85 dB @ 50/60 Hz |
| Backplane Current Required | Pointbus = 15mA<br>Field power = 20mA |
| Use Terminal Base | 1734-TB |
| Thermal Dissipation | 1.00 Watt, maximum |
| Environmental Conditions<br>Operational Temperature<br>Storage Temperature<br>Relative Humidity | <br>-20° to 55°C (-4° to 131°F)<br>-45° to 85°C (-49° to 185°F)<br>5 to 95% (non-condensing) |
| Certifications | UL/cUL (Class I, Div 2, Groups ABCD), RoHS and CE |
| Recommended Cable | Belden 8761 or equivalent |

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