

POINT I/O™

1734sc-OE2CIH/ 1734sc-OE2CIHK

Isolated Analog + HART Output Module



The 1734sc-OE2CIH/1734sc-OE2CIHK Output Modules provide full analog capability, and the benefit of the HART (Highway Addressable Remote Transducer) protocol in one I/O module. The 1734sc-OE2CIHK Input Module is conformally coated.

The 1734sc-OE2CIH module maximizes your system performance by combining real-time HART data acquisition with standard analog control—at a fraction of the cost. Simplify commissioning, operation, and maintenance of your HART devices. The data may be used as the foundation of your asset management system.

- Two isolated analog output channels with HART.
- 1 output type.
- 4 mA to 20 mA current output; 16-bit resolution; 2/4-wire support.
- Auto-scanning of HART variables (PV, SV, TV, FV).
- HART modem per channel; HART passthrough messaging.
- Easy to configure using Studio 5000 programming software, add-on profile (AOP) available.
- Open circuit detection; fault reporting; 24 V fault protection.
- Removal and insertion under power (RIUP).
- DTM and CONNECTS support provide an interface to your asset management software.

1734sc-OE2CIH(K)

Specifications



Channels Per Module	2 Isolated Current plus HART
Output Ranges:	0-20 mA; 4-20 mA plus HART. HART available only on 4-20 mA range
Resolution	16 bits across 21 mA > 320 nA
Update Time (Minimum)	10 ms analog, 6 seconds HART
Data format	Signed integer
HART Dynamic Variables	PV, SV, TV, FV
Output Load	0-750 Ohm maximum; 200-750 Ohm for HART
Full Scale Settling Time	< 100 ms to 95% with resistive loads
Electrical Isolation (continuous)	50 VDC field-wiring-to-backplane; 50 VDC field-wiring-to-chassis-ground; 10 VDC channel-to-channel isolation.
Accuracy	Range Temperature Accuracy (% full scale)
Long-term Drift	0-21 mA extended 25 °C 0.15% full scale 0-21 mA extended -20 °C to 55 °C 0.3% full scale target
Repeatability (HART Disabled)	±0.05% full scale
Maximum Inductive Load	10 uH
Backplane Current Required	55 mA at 5 VDC
Field Supply current draw with 20 mA into 750 Ohm loads	175 mA at 12 VDC; maximum 77 mA at 24 VDC (2.1VA for 10 – 28.8V)
Thermal Dissipation	1.79 Watts, maximum
Output Impedance	10 kOhm at 1 KHz; >1 K at 10 kHz
Environmental Conditions	
Operational Temperature	-20 °C - +55 °C (-4 °F - +131 °F)
Storage Temperature	-40 °C - +85 °C (-40 °F - +185 °F)
Relative Humidity	5% - 95% (non-condensing)
Calibration	Factory-only calibration supported; no user calibration
Certifications	UL/cUL Listed ANSI ISA 12.12.01 (Class I, Div. 2, Groups ABCD), CE, UKCA, ATEX, CCC, ROROC