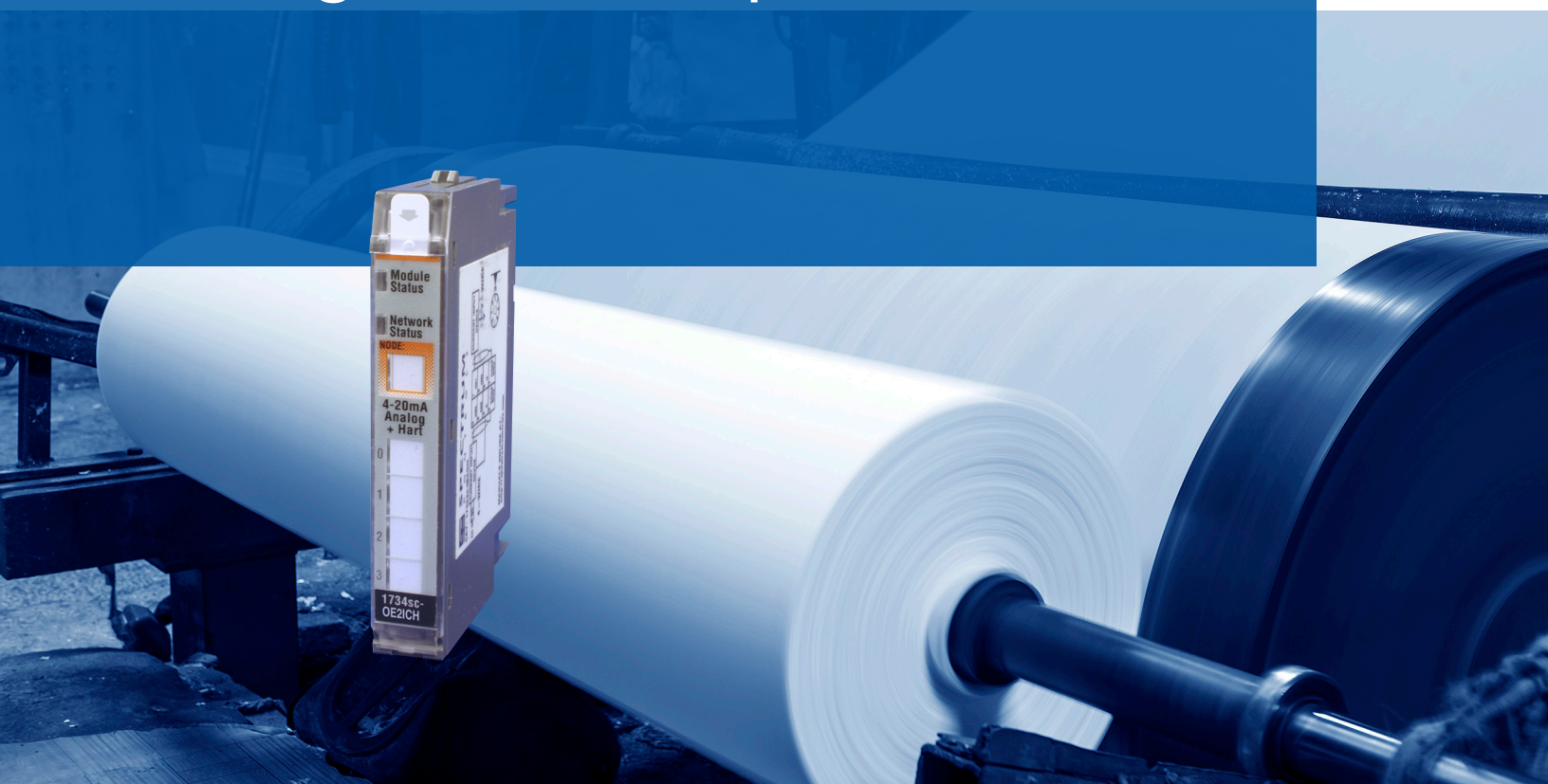


1734sc-OE2CIH

Analog + HART Output Module



The 1734sc-OE2CIH Output Module provides remote I/O with full analog capability, and the benefit of the HART (Highway Addressable Remote Transducer) protocol in one I/O module.

Reduce System Costs

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 channels of isolated current and HART output provide a flexible solution for process applications.
- 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.
- 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.
- Auto-scanning of HART dynamic variables (PV, SV, TV, FV).
- Studio 5000 Profile.

1734sc-OE2CIH Specifications

| | | | |
|---|---|-----------------|-------------------------|
| Outputs per Module | Two isolated outputs | | |
| Output Ranges | 0-20 mA; 4-20 mA plus HART. HART available only on 4-20 mA range | | |
| HART Dynamic Variables | PV, SV, TV, FV | | |
| Output Load | 0-750 ohm maximum; 200-750 ohm for HART | | |
| Resolution | 16 bits across 21 mA to 320 mA | | |
| Update Time (Minimum) | 10 ms analog, 6 seconds HART | | |
| Electrical Isolation (Continuous) | 50 VDC field-wiring-to-backplane; 50 VDC field-wiring-to-chassis-ground; 50 VDC channel-to-channel isolation. | | |
| Full Scale Settling Time | < 100 ms to 95% with resistive loads | | |
| Repeatability (HART Disabled) | ±0.05% full scale | | |
| Maximum Inductive Load | 10 uH | | |
| Backplane Current Required | 77 mA @ 24 V max 55 mA @ 5 V max | | |
| Thermal Dissipation | 1.79 Watts, maximum | | |
| Output Impedance | >10 kohm at 1KHz; >1K at 10 kHz | | |
| | Range | Temperature | Accuracy (% full scale) |
| Accuracy | 0-21 mA extended | 25 °C | 0.15% full scale |
| Long-term drift | 0-21 mA extended | -20 °C to 55 °C | 0.3% full scale target |
| 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) | | |
| External DC power supply voltage | 24 VDC nominal; 10 VDC to 28.8 VDC (voltage range) | | |
| Field Supply current draw with 20 mA into 750 Ohm loads | 175 mA at 12 VDC; maximum 77 mA at 24 VDC (voltage range) | | |
| Key switch position | 4th position | | |
| Terminal base | 1734-TB | | |
| Maximum Input Overload | Fault-protected to ±24 VDC | | |
| Data format | Signed integer | | |
| Wire size | Determined by installed terminal block | | |
| Calibration | Factory-only calibration supported, no user calibration | | |