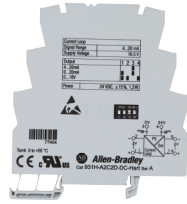


Bulletin 931  
**Signal Conditioners**  
**HART Signal Conditioner**

**Active Isolator, 3-Way, HART**

- Two conductor system
- Three port isolation
- With HART transmission
- Output signal switchable

**931H-A2C2D-DCHART**



**Setting options/switch position**

| Output      | Switch                              |                                     |                                     |                                     |
|-------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
|             | 1                                   | 2                                   | 3                                   | 4                                   |
| 4 ... 20 mA | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 0 ... 20 mA | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 0 ... 10 V  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

■ = on  
 = off

|  |   |               |
|--|---|---------------|
| Specifications                             | <b>Active Isolator, 3-Way, HART</b>   |               |
| Wiring Diagram                             |   |               |
| Standards Compliance                       | UL 508, CSA C22.2 No. 0-10, CSA C22.2 No. 14-10, EN 61010-1:2001, EN 61000-6-1:2007, EN 61000-6-2: 2005, EN 61000-6-3:2007, EN 61000-6-4:2007 |               |
| Certifications                             | cURus (NMTR2/8.E56639), CE  |               |
| <b>Input Ratings</b>                       |   |               |
| Current                                    | 4...20 mA   |               |
| Sensor                                     | 2-conductor   |               |
| Supply Voltage                             | 16.5V / constant for 3...22 mA  |               |
| Input                                      | Active  |               |
| <b>Output Ratings</b>                      |   |               |
| Current                                    | 0...20 mA / 4...20 mA   |               |
| Voltage                                    | 0...10V   |               |
| Load Impedance (voltage/current)           | $\geq 10 \text{ k}\Omega / \leq 500 \Omega$   |               |
| Step Response Time                         | $\leq 2 \text{ ms}$   |               |
| Temperature Coefficient                    | $\leq 50 \text{ ppm/K}$   |               |
| Accuracy                                   | $I_{OUT} < 0.1\% / U_{OUT} < 0.2\%$   |               |
| Offset Current / Voltage                   | max. 30 $\mu\text{A}$ / max. 30 mV  |               |
| Residual Ripple                            | $< 10 \text{ mV}_{\text{eff}}$  |               |
| Output                                     | Active  |               |
| <b>General Specifications</b>              |   |               |
| Supply Voltage                             | 24V DC $\pm 15\%$   |               |
| Power Consumption                          | approx. 1 W   |               |
| Communication                              | to Hart specification   |               |
| Current Carrying Capacity of Cross Connect | $\leq 2 \text{ A}$  |               |
| Operating Temperature                      | 0 °C...+55 °C   |               |
| Storage Temperature                        | -25 °C...+85 °C   |               |
| Rated Insulation Voltage                   | 600V  |               |
| Isolation Voltage Input - Output           | 2.5kV <sub>eff</sub>  |               |
| Surge Category                             | II  |               |
| Pollution Severity                         | 2   |               |
| Connection Type                            | Screw   |               |
| L x W x H (mm)                             | 88 x 6.1 x 97.8   |               |
| <b>Signal Conditioner</b>                  | Cat. No.  | Pkg. Quantity |
|  | 931H-A2C2D-DCHART   | 1             |