

Active Converter, PT100/RTD

- Two way isolation between input and output/power supply
- PT100 two or three conductor
- Power supply can be cross-connected using center jumpers
- Low power loss

931H-P2C1D-DC

Specifications	Active Converter, PT100/RTD
Wiring Diagram	
Standards Compliance	UL 508, UL 1604, UL 60079-15, CSA E60079-15:02, CSA C22.2 No. 213-1987, CSA C22.2 No. 142-M1987, EN 50178:1997, EN 60079-0:2006, EN 60079-15:2005, EN 61000-6-1:2007, EN 61000-6-2: 2005, EN 61000-6-3:2007, EN 61000-6-4:2007
Certifications	cULus (Class 1, Div. 2/Zone 2, Groups A, B, C and D, NRAG/7.E10314 and NWGD/7.E10314), CE, ATEX (Class 1, Zone 2, Demko 09ATEX 147279X)

Input Ratings	
Sensor	PT100/2-/3-conductor (to IEC 751)
Supply Current	0.8 mA
Temperature Input Rating	0...100 °C
Input	Passive
Output Ratings	
Voltage	0...10V / 0...5V
Current	0...20 mA / 4...20 mA
Load Impedance (voltage/current)	≥ 10 kΩ / ≤ 300 Ω, ≤ 400 Ω @ 24V
Accuracy	< 0.5% of measuring range
Temperature Coefficient	≤ 250 ppm/K of final value
Step Response Time	< 0.7 s
Output	Active
General Specifications	
Supply Voltage	24V DC ± 10 %
Power Consumption	approx. 0.6 W
Operating Temperature	0 °C...+55 °C
Storage Temperature	-20 °C...+85 °C
Default Settings	0...20 mA
Rated Insulation Voltage	100V
Impulse Withstand Voltage	1.5kV
Isolation Voltage Input - Output	500V _{eff} / 1 s
Surge Category	III
Pollution Severity	2
Connection Type	Screw
L x W x H (mm)	88 x 6.1 x 88
Signal Conditioner	Cat. No.
	931H-P2C1D-DC
	Pkg. Quantity
	1

Setting options/switch position

Output	Switch			
	1	2	3	4
0 ... 10 V	■	■	■	□
0 ... 20 mA	□	□	□	□
4 ... 20 mA	□	□	□	■
0 ... 5 V	■	■	■	■

■ = on
 □ = off

Connection

