



R-9017C1H

8-ch, isolated 4~20 mA input, HART master

■ 8 current input channels ■ Overrange measurement (0~24 mA) ■ Built-in HART master interface ■ 16-bit A/D converter ■ Channel disconnection detection ■ Termination board disconnection detection ■ Redundant switching time (< 1 ms)

■ Introduction

R-9017C1H is a 16-bit 8-channel isolated analog input module that provides a 100Hz sampling rate, a current input range of $4\sim20$ mA, an error value of $\pm0.05\%$, enabling high-accuracy applications, and supports $\pm25\%$ over-range measurements (accuracy not guaranteed). In addition to current input, R-9017C1H also has a built-in HART master interface, which can remotely maintain equipment through HART. It also provides 3000 VDC isolation between the power supply and the backplane bus, making it better able to prevent noise interference in industrial environments without affecting the RIO-98x0 system.

Specifications

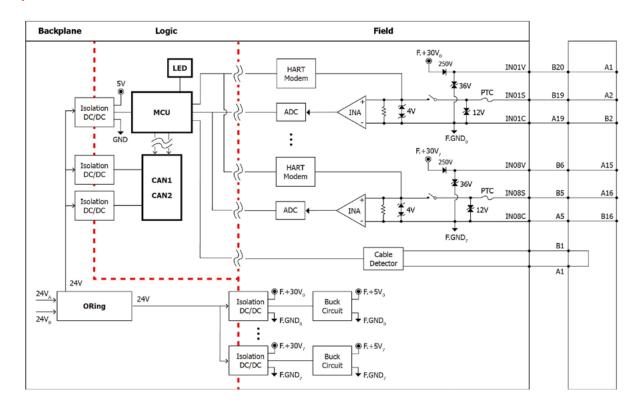
Features		
Redundant	Yes (Switching time < 1 ms)	
Disconnection Detection	Yes	
Over-Current Protection	Yes	
HART	Yes, supports HART master	
LED Indicator	1 PWR, 1 MOD, 1 ACT, 1 DX, 1 ERR LED 0~7: CH High/Low Alarm LED 16~23: CH Break Line	
Analog Input		
Number of Channels	8	
Туре	4~20 mA (Support ±25% overrange)	
Max. Input Current	24 mA	
Resolution	16 bit	
Sampling Rate	100 Samples/Sec.	
Accuracy	±0.05% FSR	
Zero Drift	±0.002 LBS/°C	
Span Drift	±5 ppm/°C	
Common Mode Rejetion	86 dB	
Normal Mode Rejetion	100 dB	

Analog Input	
Input Impedance	105.3 Ω ±1 %
	(Single/Duplex)
Date Range	-2500~12500 (0~24 mA)
Isolation	3000 VDC
HART	
Mode	Master, Monodrop (Point-to-Point)
Certification	
EMC	EN 61000-6-2 (EMS) EN 61000-6-4 (EMI) IEC/EN 61000-4-2 (ESD) IEC/EN 61000-4-4 (EFT)
General	
Termination Board	RDB-S09 / RDB-D09
Max. Power Consumption	4.6 W
Operating Temp.	-25 ~ 70 °C
Storage Temp.	-30 ~ 75 °C
Humidity	5 ~ 95 % RH,
	Non-condensing
Weight	350 g
Dimensions (WxLxH)	33 mm x 129 mm x 130 mm
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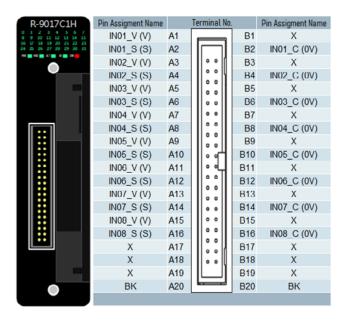
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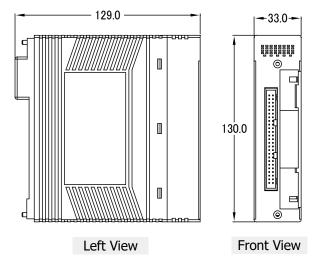
■ I/O Structure



Pin Assignment



■ Dimensions (Units: mm)



Ordering Information

R-9017C1H CR 8-ch, isolated 4~20mA input module, HART master (RoHS)

Accessories

RDB-S09 CR	Single I/O termination board (RoHS), for R-9017C1H/R-9028V1/R-9028CH/R-9084	
RDB-D09 CR	Duplex I/O termination board (RoHS), for R-9017C1H/R-9028V1/R-9028CH/R-9084	