



Features

- 16 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)</p>



R-9017C2H 16-ch Current Input Redundant Module with HART Master Interface

Introduction

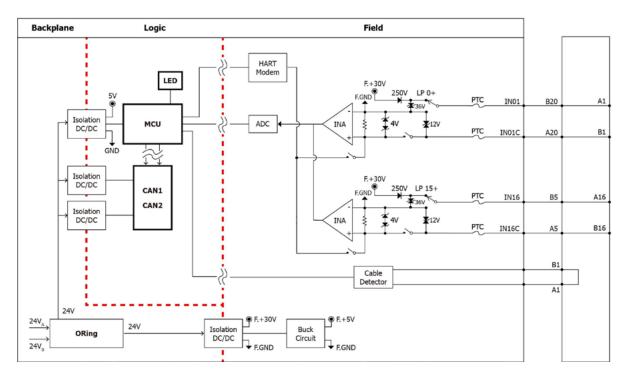
R-9017C2H is a 16-bit 16-channel analog input module that provides a 10Hz sampling rate, a current input range of $4\sim$ 20mA, an error value of \pm 0.05%, enabling high-accuracy applications, and supports \pm 25% over-range measurements (accuracy not guaranteed). In addition to current input, R-9017C2H 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 < 1ms)			
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 0~15 for CH Hi/Lo Alarm LED 16~31 for CH Break Line			
Analog Input				
Number of Channels	16			
Туре	4~20 mA (Support ±25% overrange)			
Max. Input Current	24 mA			
Resolution	16 bit			
Sampling Rate	10 Samples/Sec.(per channel)			
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	85.3 Ω±1%			
Date Range	-2500~12500 (0~24 mA)			
Isolation	3000 VDC			
HART				
Mode Master, Monodrop (Point-to-Poir				
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-S01 / RDB-D01			
Max. Power Consumption	2.4 W			
Operating Temp.	-25 ~ 70 ℃			
Storage Temp.	-30 ~ 75 ℃			
Humidity	5 ~ 95 % RH, Non-condensing			
Weight	260 g			
Dimensions (WxLxH)	33 mm x 129 mm x 130 mm			

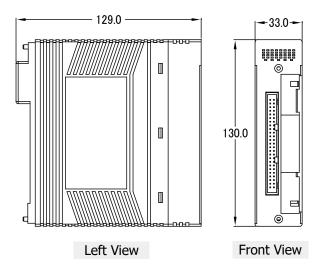
I/O Structure



🖿 Pin Assignment

R-9017C2H	Pin Assigment Name		Terminal No.	Pin Assigment Name
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	IN01	A1		1 IN01C
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	IN02	A2		2 IN02C
	IN03	A3		3 IN03C
	IN04	A4	E	4 IN04C
	IN05	A5		5 IN05C
	IN06	A 6	0 0 0 E	6 IN06C
	IN07	A7		7 IN07C
•••	IN08	A 8	E Constant	8 IN08C
	IN09	A 9	E	9 IN09C
	IN10	A10	B1	0 IN10C
	IN11	A11	••4, B1	1 IN11C
	IN12	A12	B1	2 IN12C
	IN13	A13	B1	3 IN13C
	IN14	A14	0 0 B1	4 IN14C
	IN15	A15	0 0 B1	5 IN15C
	IN16	A16	B1	6 IN16C
للنقا	Х	A17	B1	7 X
	Х	A18	0 0 B1	8 X
	Х	A19	B1	9 X
	BK	A20	B2	0 BK

Dimensions (Units: mm)



Ordering Information

R-9017C2H CR 16-ch Isolated Current Input Redundant Module with HART master Interface (RoHS)

Accessories

RDB-S01 CR	Termination board for single non-isolated analog modules (RoHS)	
RDB-D01 CR	Termination board for duplex non-isolated analog modules (RoHS)	