



R-9015

12-ch, RTD input

Features

- 12 RTD input channels
- User defined up/down scale
- 16 bit A/D converter
- Channel disconnection detection
- Termination board disconnection detection
- Redundant switching time (<1 ms)



Introduction

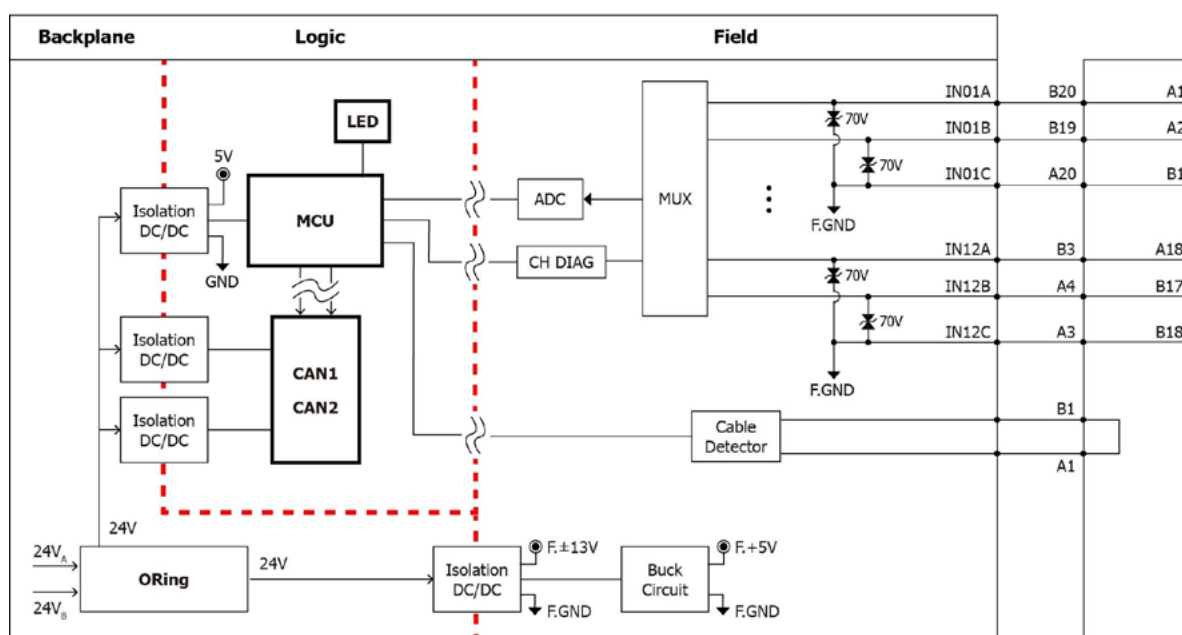
R-9015 is a 16-bit 12-channel RTD input module. Each channel has a self-programmable input range and an accuracy of $\pm 0.05\%$. It also provides 3000 VDC isolation between the power supply and the backplane bus, making it better able to prevent noise interference in industrial environments without affecting the RIO-98x0 system.

Specifications

Features		
Redundant		Yes (Switching time < 1 ms)
Disconnection Detection		Yes
Over-Current Protection		Yes
LED Indicator		1 PWR, 1 MOD, 1 ACT, 1 DX, 1 ERR
		LED 0~11: CH High/Low Alarm LED 16~27: CH Break Line
Analog Input		
Number of Channels		12
Connection		3-Wire
Type	Pt 100	IEC 60751 ITS90 (0.03851 Ω/Ω/°C)
	JPt 100	JIS C 1604 (0.03916 Ω/Ω/°C)
	Pt 1000	IEC 60751 ITS90 (0.03851 Ω/Ω/°C)
Range	Pt 100	-200 ~ +850
	JPt 100	-200 ~ +630
	Pt 1000	
Resolution		16 bit
Sampling Rate		1 Samples/Sec.
Accuracy		±0.05% FSR

Analog Input	
Zero Drift	$\pm 0.5 \mu\text{V}/^\circ\text{C}$
Span Drift	$\pm 20 \mu\text{V}/^\circ\text{C}$
Common Mode Rejection	106 dB
Normal Mode Rejection	100 dB
Input Impedance	20M Ω
Date Range	-2500~12500
Isolation	3000 VDC
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-S03 / RDB-D03
Max. Power Consumption	2 W
Operating Temperature	-25 ~ 70 $^\circ\text{C}$
Storage Temperature	-30 ~ 75 $^\circ\text{C}$
Humidity	5 ~ 95 % RH, Non-condensing
Weight	200g
Dimensions (WxLxH)	33mm x 129mm x 130mm

I/O Structure

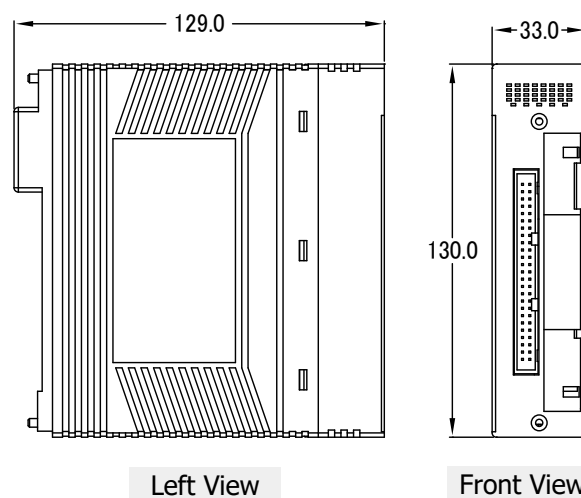


Pin Assignment



Pin Assignment Name	Terminal No.	Pin Assignment Name
IN01A	A1	B1
IN01B	A2	B2
IN02A	A3	B3
IN03A	A4	B4
IN03B	A5	B5
IN04A	A6	B6
IN05A	A7	B7
IN05B	A8	B8
IN06A	A9	B9
IN07A	A10	B10
IN07B	A11	B11
IN08A	A12	B12
IN09A	A13	B13
IN09B	A14	B14
IN10A	A15	B15
IN11A	A16	B16
IN11B	A17	B17
IN12A	A18	B18
X	A19	B19
BK	A20	B20

Dimensions (Units: mm)



Ordering Information

R-9015 CR	12-ch, RTD Input module (RoHS)
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Accessories

RDB-S03 CR	Single I/O termination board (RoHS), for R-9015
RDB-D03 CR	Duplex I/O termination board (RoHS), for R-9015