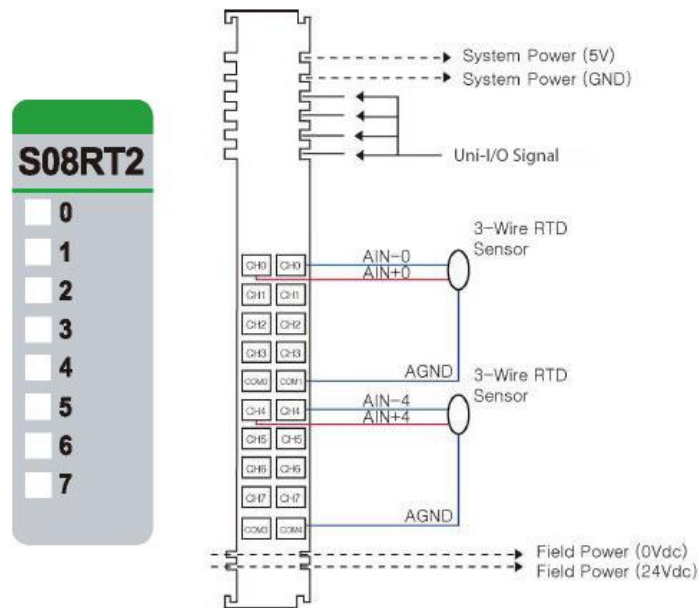


URS-08RT-2 (S08RT2) - 8 RTD / Resistance

Items	Specification																																
Inputs per module	8 Channels																																
Indicators(Logic side)	8 Green Input status																																
Sensor Types	<table border="1"> <thead> <tr> <th colspan="2">RTD Input Range</th> </tr> <tr> <th>RTD Input</th> <th>Input Range</th> </tr> </thead> <tbody> <tr> <td>PT100, PT200, PT500, PT50</td> <td>-200~850°C (-328°F, 1562°F)</td> </tr> <tr> <td>PT1000</td> <td>-200~350°C (-328°F, 662°F)</td> </tr> <tr> <td>JPT100, JPT200, JPT500, JPT50</td> <td>-200~640°C (-328°F, 1184°F)</td> </tr> <tr> <td>JPT1000</td> <td>-200~350°C (-328°F, 662°F)</td> </tr> <tr> <td>NI100, NI200, NI500</td> <td>-60~250°C (-76°F, 418°F)</td> </tr> <tr> <td>NI1000</td> <td>-60~180°C (-76°F, 356°F)</td> </tr> <tr> <td>NI120</td> <td>-80~260°C (-112°F, 500°F)</td> </tr> <tr> <td>NI1000LG</td> <td>-50~120°C (-58°F, 248°F)</td> </tr> <tr> <th colspan="2">Resistance Input</th> </tr> <tr> <th></th> <th>Input Range</th> </tr> <tr> <td>100mΩ/bit</td> <td>0~2000Ω</td> </tr> <tr> <td>10mΩ/bit</td> <td>0~327Ω</td> </tr> <tr> <td>20mΩ/bit</td> <td>0~620Ω</td> </tr> <tr> <td>50mΩ/bit</td> <td>0~1200Ω</td> </tr> </tbody> </table>	RTD Input Range		RTD Input	Input Range	PT100, PT200, PT500, PT50	-200~850°C (-328°F, 1562°F)	PT1000	-200~350°C (-328°F, 662°F)	JPT100, JPT200, JPT500, JPT50	-200~640°C (-328°F, 1184°F)	JPT1000	-200~350°C (-328°F, 662°F)	NI100, NI200, NI500	-60~250°C (-76°F, 418°F)	NI1000	-60~180°C (-76°F, 356°F)	NI120	-80~260°C (-112°F, 500°F)	NI1000LG	-50~120°C (-58°F, 248°F)	Resistance Input			Input Range	100mΩ/bit	0~2000Ω	10mΩ/bit	0~327Ω	20mΩ/bit	0~620Ω	50mΩ/bit	0~1200Ω
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Excitation Current	About 1mA																																
Connection Method	3-Wire																																
Conversion Time	< 280ms, All Channel																																
Data Format	16bits signed Integer (2' complement)																																
Module Accuracy	PT100, PT1000 type Range $\pm 0.5^{\circ}\text{C}$ (32.9°F) @ 25°C (77°F) All type Input Range $\pm 0.1\%$ Full Scale @ 25°C (77°F) ambient $\pm 0.3\%$ Full Scale @ 40°C to 70°C (-40°F to 158°F)																																
Resolution of Data	RTD Type : $\pm 0.1^{\circ}\text{C}$ / F , Resistance Type : 100mΩ, 10mΩ, 20mΩ, 50mΩ																																
Calibration	Not Required																																
Diagnostic	Sensor open or range over, then conversion data = 0x8000(-32768)																																
Power dissipation	Max. 120mA @ 5.0VDC																																
Isolation	I/O to Logic : Isolation Field power : Not Connected																																
Field Power	Not used, Field power bypass to next expansion module																																
Wiring	I/O Cable Max. 2.0mm ² (AWG 14)																																
Weight	60g																																
Module Size	12mm x 99mm x 70mm																																
Operating temperature	40°C to 70°C (-40°F to 158°F)																																

1. Wiring Diagram



Pin No.	Signal Description	Signal Description	Pin No.
0	RTD 0+	RTD 0-	1
2	RTD 1+	RTD 1-	3
4	RTD 2+	RTD 2-	5
6	RTD 3+	RTD 3-	7
8	AGND	AGND	9
10	RTD 4+	RTD 4-	11
12	RTD 5+	RTD 5-	13
14	RTD 6+	RTD 6-	15
16	RTD 7+	RTD 7-	17
18	AGND	AGND	19

2. LED Indicators

LED No.	LED Function / Description	LED Color
0	Input 0	Green
1	Input 1	Green
2	Input 2	Green
3	Input 3	Green
4	Input 4	Green
5	Input 5	Green
6	Input 6	Green
7	Input 7	Green

Status	LED	Indication
No Signal, Normal Operation	Off	Input Sensor Open or Input Range Over Normal Operation
On Signal Normal Operation	Green	Sensor Connected and Input Range Valid Normal Operation