

Manual Supplement


Manual Title: 712B Users
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This supplement contains information necessary to ensure the accuracy of the above manual.

Change #1, 67533

On page 4, add the following to the **Symbols** table:

	Conforms to relevant South Korean EMC Standards.
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On page 32, under **General Specifications** add:

Electromagnetic Compatibility .. Applies to use in Korea only. Class A Equipment (Industrial Broadcasting & Communication Equipment)
 This product meets requirements for industrial (Class A) electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and is not to be used in homes.

Change #2, 94, 483, 776

On page 2, add the following to the **Summary of Source and Measure Functions** table:

Function	Measure	Source
RTD (Resistance-Temperature Detector)	Pt100 (3902)	

On page 17, replace the **RTD Types Accepted** table with:

Table 1. RTD Types Accepted

RTD Type	Ice Point (R ₀)	Material	α	Range (°C)
Pt100 (3902)	100 Ω	Platinum	0.003902 $\Omega / (\Omega \cdot ^\circ\text{C})$	-200 to +500
Pt100 (3926)	100 Ω	Platinum	0.003926 $\Omega / (\Omega \cdot ^\circ\text{C})$	-200 to 630
Pt100 (385) ^[1]	100 Ω	Platinum	0.00385 $\Omega / (\Omega \cdot ^\circ\text{C})$	-200 to 800
Ni120 (672)	120 Ω	Nickel	0.00672 $\Omega / (\Omega \cdot ^\circ\text{C})$	-80 to 260
Pt200 (385)	200 Ω	Platinum	0.00385 $\Omega / (\Omega \cdot ^\circ\text{C})$	-200 to 630
Pt500 (385)	500 Ω	Platinum	0.00385 $\Omega / (\Omega \cdot ^\circ\text{C})$	-200 to 630
Pt1000 (385)	1000 Ω	Platinum	0.00385 $\Omega / (\Omega \cdot ^\circ\text{C})$	-200 to 630
Pt100 (3916)	100 Ω	Platinum	0.003916 $\Omega / (\Omega \cdot ^\circ\text{C})$	-200 to 630
Pt10 (385)	10 Ω	Platinum	0.00385 $\Omega / (\Omega \cdot ^\circ\text{C})$	-200 to 800
Pt50 (385)	50 Ω	Platinum	0.00385 $\Omega / (\Omega \cdot ^\circ\text{C})$	-200 to 800
Cu10 (427)	9.035 Ω ^[2]	Copper	0.00427 $\Omega / (\Omega \cdot ^\circ\text{C})$	-100 to 260
Cu50 (427)	50 Ω	Copper	0.00427 $\Omega / (\Omega \cdot ^\circ\text{C})$	-180 to 200
Cu100 (427)	100 Ω	Copper	0.00427 $\Omega / (\Omega \cdot ^\circ\text{C})$	-180 to 200

YSI400				15 to 50
<p>[1] The Pt100 commonly used in U.S. industrial applications is Pt100 (3916), $\alpha = 0.003916 \Omega/(\Omega \cdot ^\circ\text{C})$. (Also designated as JIS curve.) The IEC standard RTD is the Pt100 (385), $\alpha = 0.00385 \Omega/(\Omega \cdot ^\circ\text{C})$.</p> <p>[2] $10 \Omega @ 25 ^\circ\text{C}$</p>				

On page 31, add the following to the **RTD Input and Output** table:

RTD Type (α)	Range ($^\circ\text{C}$)	Measure ($^\circ\text{C}$)			Source ($^\circ\text{C}$)	
		1 year	2 year	Source Current	1 year	2 year
100 Ω Pt(3902)	-200 to +100	0.2 $^\circ\text{C}$	0.4 $^\circ\text{C}$	1 mA	0.2 $^\circ\text{C}$	0.4 $^\circ\text{C}$
	100 to 500	0.015 % + 0.18 $^\circ\text{C}$	0.03 % + 0.36 $^\circ\text{C}$		0.015 % + 0.18 $^\circ\text{C}$	0.03 % + 0.36 $^\circ\text{C}$

Change #3, 487

On page 32, replace Electromagnetic Environment with:

Electromagnetic Environment	IEC 61326-1, Portable FCC: CFR Title 47, Part 15, Subpart B
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