

CHAPTER 1: DESCRIPTION

1.1 Product Description

The RTD Input Modules allow RTD temperature sensors to be directly connected to the PLC without external signal processing (transducers, transmitters, etc.). All analog and digital processing of the RTD signal is performed on the module, and temperature values in 0.5°C or 0.5°F increments are written to the 90-30 %AI input table. All modules feature six channels, and support PT-90 (MIL-7990), PT-100 ($\alpha=.00385$, $.003902$ and $.03906$), Ni-120, Cu-10, Cu-50, Cu-53, Cu-100, Pt-1000, TD5R and Linear Resistance.

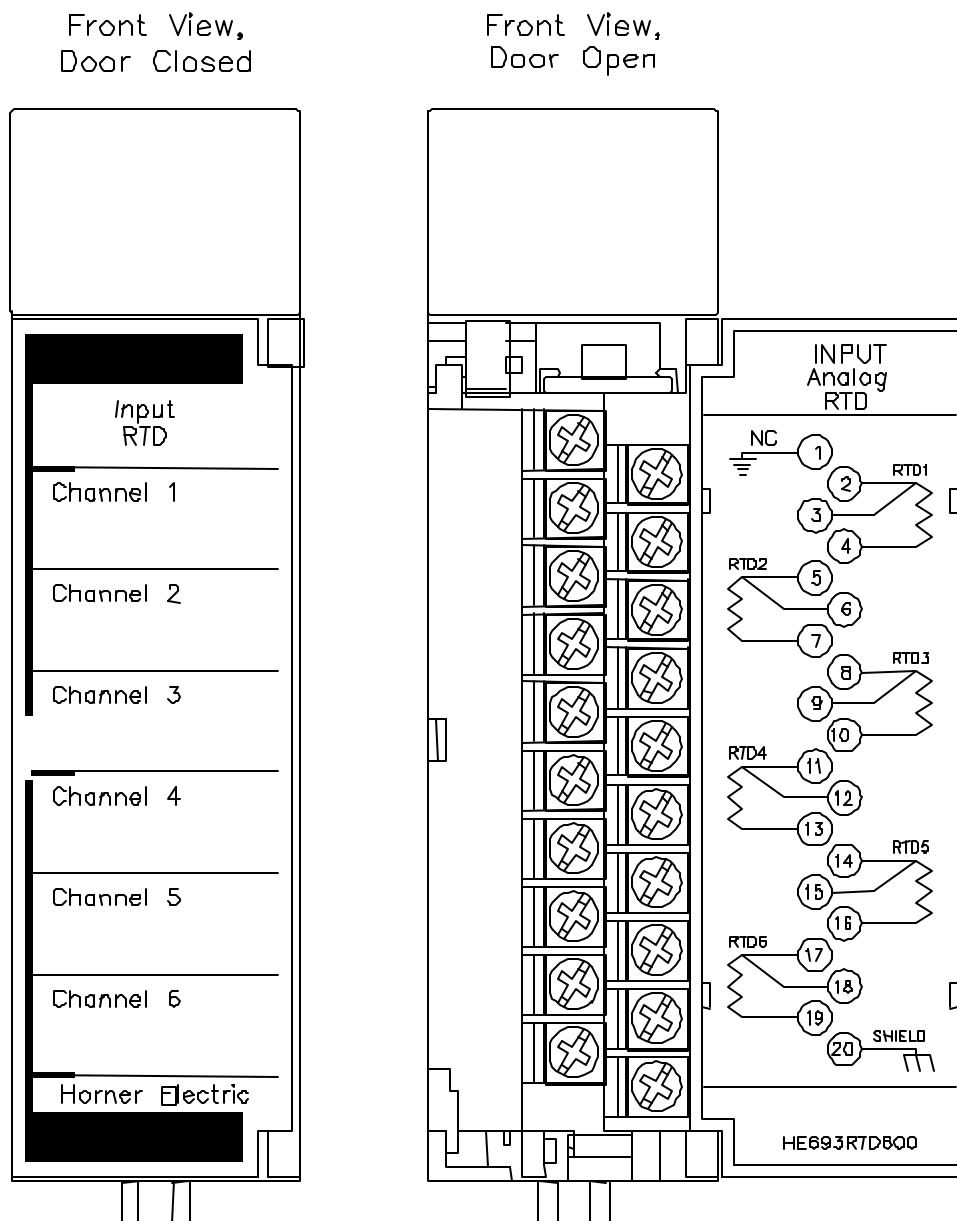


Figure 1.1 – Front

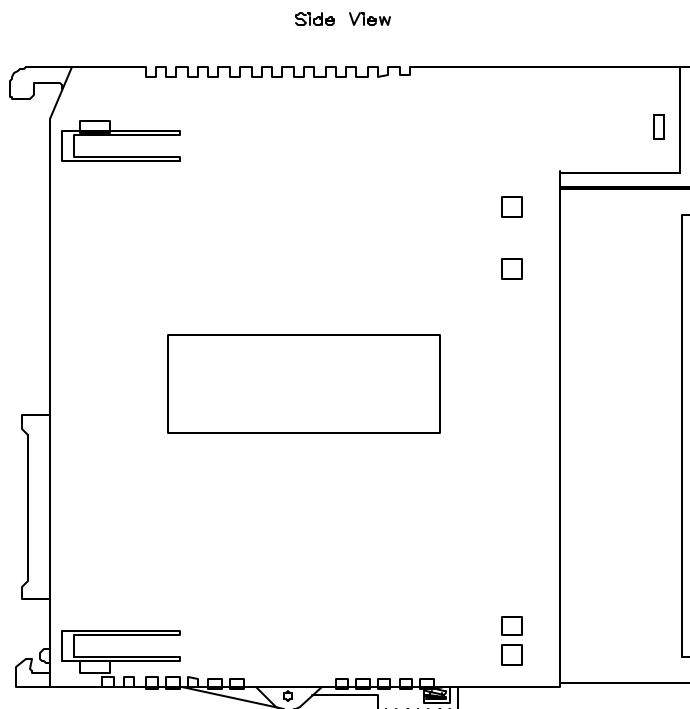


Figure 1.2 – Side View

RTD600.DWG

1.2 Specifications

Table 1.1 - HE693RTD600-24 Specifications

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Power Consumption (Typical)		75mA @ 5VDC	Number of Channels	6
Types Supported	Pt-100E	-200 to 850°C	I/O Points Required	6%AI
	Pt-100C	-100 to 650°C	Input Impedance	>1000 Meg Ω
	Pt-100Z	-200 to 300°C	Fault Protection	Zener Diode Clamp
	Pt-1000	-100 to 850°C	A/D Conversion Type	16 bit, Integrating
	Cu-10	-200 to 260°C	Update Time	50 Channels per second
	Cu-50	0 to 100°C	Average RTD current, PT-100	330 microamps
	Cu-53	-200 to 260°C	Channel to Channel Tracking	0.1°C
	Cu-100	-200 to 200°C	Resolution	0.5°C or 0.5°F
	Ni-120	-100 to 270°C	Accuracy	$\pm 0.5^\circ\text{C}$ typical, $\pm 1.0^\circ\text{C}$ for Cu-10 and TD5R
	Linear	0 to 200 Ω	Operating Temperature	0 to 60°C (32° to 140°F)
	TD5R	-40 to 150°C	Relative Humidity	5% to 95% non-condensing
	Pt-90 (MIL-7990)	-50 to 200°C		

CHAPTER 2: CONFIGURATION

2.1 GENERAL

Chapter Two describes the procedures and set-up for I/O configuration using LogicMaster™ software.

2.2 Configuration

1. Upon entering the LogicMaster™ 90 Software, select 'LogicMaster Configuration Package' (F2) from the menu.

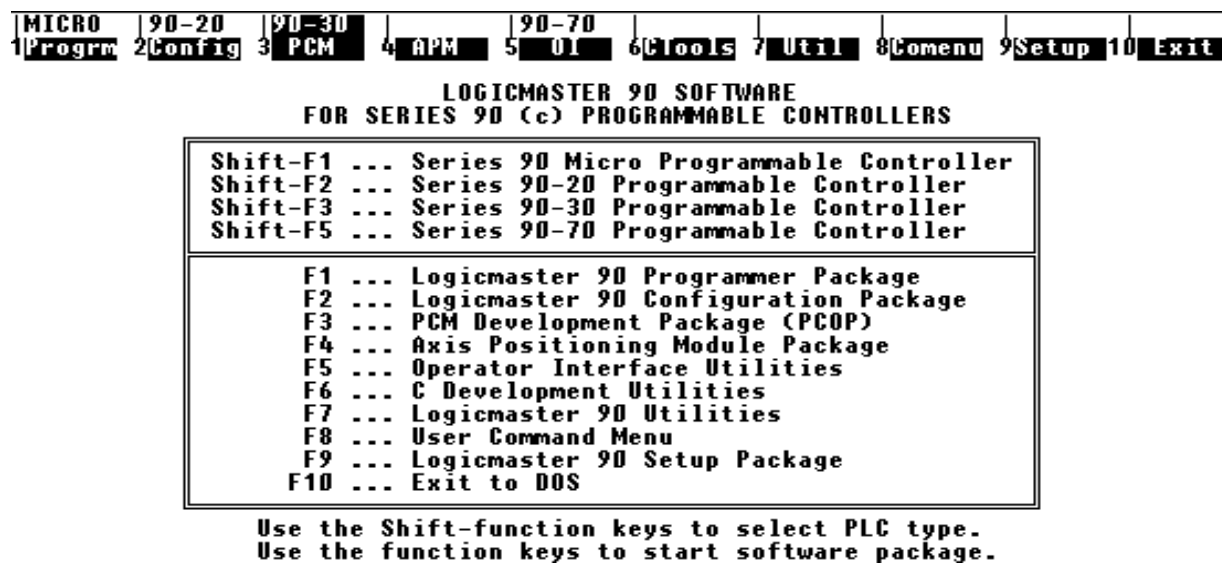


Figure 2.1 – Default Screen

2. To reach the configuration screen, select 'I/O Configuration' (F1), from the menu

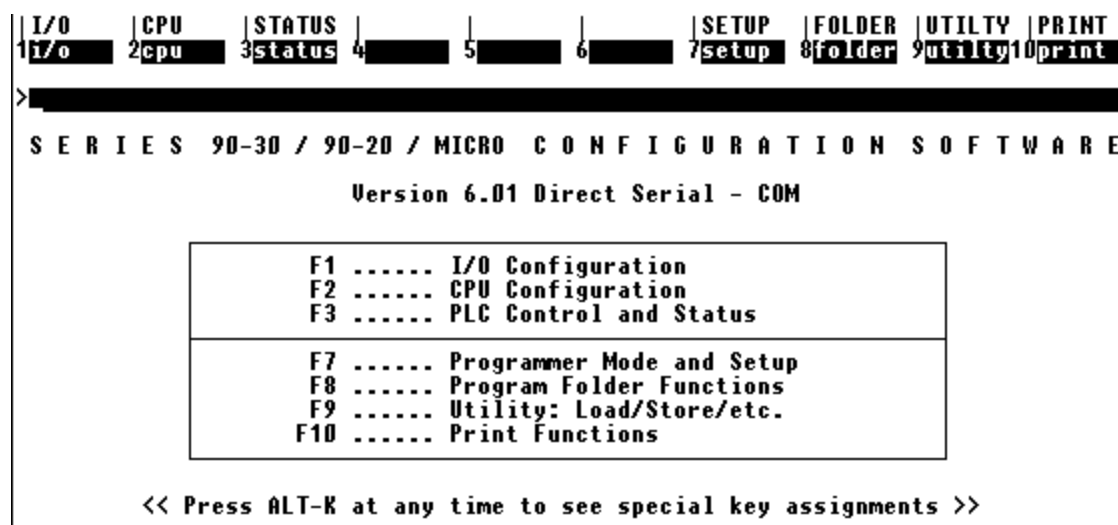


Figure 2.2 – Configuration Screen

3. Move cursor to the designated slot containing the module and select '**Other**' (F8) .

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| RACK | COPY | REF UU | DELETE | UNDEL | | | | |
| 130 io | 2genius | 3 | 4ps | 5rcksel | 6comm | 7 | 8other | 9 | 10zoom |

```

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PS/CPU	1	2	RACK U	3	4	5
=====	PROGRAMMED		CONFIGURATION			=====
PWR321						
CPU 30						

Figure 2.3 – Rack Configuration

4. From the following screen, select '**Foreign**' (F3) .

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| RACK | | | | | | | | |
| 1pcm | 2hsc | 3frgn | 4oi | 5apm | 6iolink | 7iop | 8 | 9 | 10 |

```

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SERIES 90-30 MODULE IN RACK U SLOT 5	
SOFTWARE CONFIGURATION	
SLOT 5	Catalog #:

Figure 2.4 – Slot Configuration