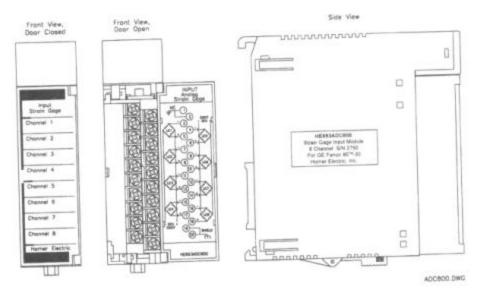


Strain Gage Module Product Specifications and Installation Data

The Horner Electric Strain Gage Input Modules allow bridged strain gages (load cells) to be directly connected to the PLC without external signal processing (transducers, transmitters, etc.). All analog and digital processing of the signal is performed on the module, and precision millivolt values are written to the 90-30 %Al input table. There are four channel (ADC400, ADC401) and eight channel (ADC800, ADC801) models available. There are models available with a range of 0-51.1875mV, and resolution of 12.5uV (ADC400, ADC800), and models with a range of 0-25.59mV, and resolution of 6.25uV (ADC401, ADC801).



	ADC800/[400]	ADC801/[401]	Specification	ADC800/[400]	ADC801/[401]	
Specification		@ 5VDC	Input Impedence	20kc	hms	
Power Consumption	8 [4] 8%AI [4%AI] Bridged (Load Cells)		Max Normal Voltage Input	54.875mV (Type K @ 1372°C +/- 5VDC or AC Successive Approximation		
Number of Channels			Maximum Voltage Input			
I/O Points Required			A/D Conversion Type			
Strain Gages Supported	0-51.1875mV	0-25.59mV	A/D Conversion Time	1	ms	
	12.5uV	6.25uV	Operating Temperature	0 to 60°C (32 to 140°F)		
Accuracy		12 5uV	Relative Humidity	5% to 95% non-condensing		

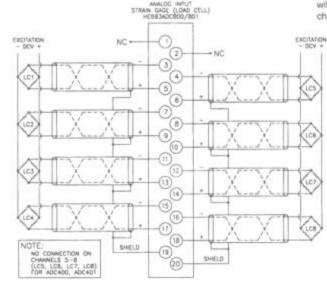
MAN0043-01

SLOT 2	Catalog #: FO		ARE		OREIGN MOD	ULE		
PRGN	×I Ref Adr : ×I Size : ×Q Ref Adr : ×Q Size : ×AI Ref Adr: ×AI Size :	3 ×10001 8 ×00001 8 ×A1001 8 ×A0001 0	Byte Byte Byte Byte Byte Byte Byte	234567	 202000201 300000000 20 20 20 20 20 20 20 20 20	Byte Byte Byte Byte Byte Byte Byte	10 11 12 13 14 15	88 88 88 88 88 88

Logicmaster™ 90-30 Foreign Module Configuration. To reach this screen, select I/O Configuration (F1), cursor over to the slot containing the module and select Other (F8), and Foreign (F3).

Model	%Al Size	Byte 1	Byte 2	
HE693ADC400	4		0000 thru 0111(see chart)	
HE693ADC401	1 *			
HE693ADC800		0001		
HE693ADC801	8			

Configuration Parameters. The three necessary parameters are %AI Size, Byte 1, and Byte 2.



0000 0001 0010 0011 Byte 2

Digital Filtering. The effect of digital filtering (set with Byte 2) on module response to a temperature change. (% temp change completed vs. time).

Installation Hints

- Keep total wire resistance less than 100Ω to maintain rated accuracy.
- Wiring should be routed in its own conduit.
- Shielded, twisted pair extension wiring offers best noise immunity.
- If shielded wiring is used, a good earth ground connection (on one end only) is critical. If shields are connected at the module end, terminals 19 & 20 may be used as the shield ground point.

WIRING/INSTALLATION

CONFIGURATION

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