

Change Summary

ZETA6104 Installation Guide

Rev B

September 1997

The following is a summary of the primary technical changes to this document.
This book, p/n 88-014782-02B, supersedes 88-014782-02A and 88-014782-01B.

Revision B Change	Wiring diagrams (series/parallel connections) for RSxxx-xxNPS and RSxxx-xxC10 motor options have been corrected – see page 9.
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Revision A Changes (from 88-014782-01 B)	
Topic	Description
New Hardware Revision	<p>These are the primary changes resulting from hardware enhancements:</p> <ul style="list-style-type: none"> • New input circuit design for P-CUT, HOM, NEG, POS, TRG-A and TRG-B. To power these inputs, you must now connect 5-24VDC (from an on-board <u>or</u> external source) to the new V_I/O terminal on the I/O connector. If V_I/O is connected to +5V, AUX-P can be connected to a supply of up to +24V; if V_I/O is connected to an external +24V supply, AUX-P must also be connected to +24V (or to GND). Switching levels depend on the power applied to V_I/O ($\leq 1/3$ of V_I/O voltage = low, $\geq 2/3$ of V_I/O voltage = high). • Jumper JU7 was added to the ZETA6104 PCA. The purpose of JU7 is to select either 4-wire or 2-wire RS-485 communication. The default is 4-wire (JU7 in position 3). • A new chip is used for the programmable output circuit (UDK2559).
New CE-marked OS Series and RS Series Motors	This manual has been updated with data to support the new CE-marked OS Series and RS Series motors that may be ordered with your ZETA6104 system.
Miscellaneous Corrections and Clarifications	<p>Corrections:</p> <ul style="list-style-type: none"> • Operating temperature range is 32-113°F (0-45°C); previously documented as 32-122°F (0-50°C). • The ZETA6104 does <u>not</u> support RS-422 communication as noted in the previous rev. • The Static Torque specs for the ZETA motors were incorrect. The DMTSTT (static torque) command setting for the ZETA57-83 motor should be DMTSTT2 (not DMTSTT1). • The parallel motor wiring diagrams (see back cover and page 9) were in error and have now been corrected. • The encoder test procedure on page 21 was corrected. • The motor inductance requirements for non-Compumotor motors (see page 43) is: recommended range = 5.0 to 50.0 mH; minimum = 0.5 mH; maximum = 80.0 mH. <p>Clarifications:</p> <ul style="list-style-type: none"> • All inputs and outputs are optically isolated from the internal microprocessor (not from the other inputs and outputs). • The programmable outputs (including OUT-A) will sink up to 300mA, or source up to 5mA at 5-24VDC. • You must select <u>either</u> the on-board +5V terminal <u>or</u> an external 5-24VDC power supply to power the AUX-P, IN-P or OUT-P pull-up resistors. Connecting AUX-P, IN-P or OUT-P to the +5V terminal <u>and</u> to an external supply will damage the ZETA6104. • If you are using an RS-232 connection between the host computer and the master ZETA6104 connected to multiple ZETA6104s in an RS-485 multi-drop, make sure the master ZETA6104 has these settings executed in the order given (you should place these settings in your power-up STARTP program): <ul style="list-style-type: none"> PORT1 (select RS-232 port, COM1, for configuration) ECHO3 (echo to both COM ports) PORT2 (select RS-485 port, COM2, for configuration) ECHO2 (echo to the other COM port, COM1)

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LVD and EMC Installation Guidelines



The ZETA6104 is in compliance with the Low Voltage Directive (72/23/EEC) and the CE Marking Directive (93/68/EEC) of the European Community.

When installed according to the procedures in the main body of this installation guide, the ZETA6104 may not necessarily comply with the Low Voltage Directive (LVD). To install the ZETA6104 so that it is LVD compliant, refer to supplemental installation instructions provided in Appendix C. If you do not follow these instructions, the protection of the ZETA6104 may be impaired.

The ZETA6104 is sold as a complex component to professional assemblers. As a component, it is not required to be compliant with Electromagnetic Compatibility Directive 89/336/EEC. However, Appendix D provides guidelines on how to install the ZETA6104 in a manner most likely to minimize the ZETA6104's emissions and to maximize the ZETA6104's immunity to externally generated electromagnetic interference.