

IMPORTANT PRODUCT INFORMATION

READ THIS INFORMATION FIRST

Product: IC697 Alphanumeric Display Coprocessor Module
IC697ADC701J
Hardware Identification: PCMA3, 44A735360-G01R04 or Later
Software Identification: Version 4.01 EPROM Label: 387-048D4.01 (U60)
Version 4.11 EPROM Label: 387-054D4.11 (U59)

Replaces:

IC697ADC701A/B/C/D/E/F/G/H

There were no problems that needed to be resolved by this release. The only difference between IC697ADC701F and IC697ADC701G (or later releases) is that with Revision G (or later releases), both serial ports on the module now provide optical isolation.

Read this document before installing or attempting to use the Alphanumeric Display Coprocessor Module, IC697ADC701J, with your programmable controller system.

This is the ninth release of the Alphanumeric Display Coprocessor (ADC) module. The ADC module is used with the Alphanumeric Display System operator interface software.

The Alphanumeric Display System is a character-oriented operator interface product which may be hosted on any IC697 or IC693 model 331, 340, 341 or 351 programmable controller. It is a low-cost system which requires no user programming; all data is entered via simple pull-down and pop-up menus and dialog boxes.

The various versions of ADS software are compatible only with certain revisions of the host IC697 ADC module. Refer to the following table for supported compatibility between the ADS software and the various ADC modules.

| ADC Module | is Compatible With ADS Software Versions | is NOT Compatible With ADS Software Versions |
|---------------|---|---|
| IC697ADC701J | 3.01 and above | 1.01 through 2.01 |
| IC697ADC701H | 3.01 and above | 1.01 through 2.01 |
| IC697ADC701G | 3.01 and above | 1.01 through 2.01 |
| IC697ADC701F | 3.01 and above | 1.01 through 2.01 |
| IC697ADC701E† | 3.01 and above | 1.01 through 2.01 |
| IC697ADC701D | 3.01 and above | 1.01 through 2.01 |
| IC697ADC701C | 3.01 and above | 1.01 through 2.01 |
| IC697ADC701B | 1.01 through 2.01 | 3.01 and above |
| IC697ADC701A | 1.01 through 1.04 | 2.01 and above |

† This version of the ADC module, or higher, *is required* to use the new Lucas Deeco® ST2200 target terminal and/or the new TTY printer table. See "New Features and Functionality" for more details.

Update Kits

There is no update kit for going from IC697ADC701F to IC697ADC701G/H/J. Due to a hardware difference, IC697ADC701F cannot be made into IC697ADC701G/H/J (only firmware can be made equivalent).

For upgrading the firmware to the equivalent level of IC697ADC701F/G/H/J, the following update kits are available.

| | | |
|---------------|----------------|---------------|
| 44A731224-G05 | IC697 Products | (IC697ADS701) |
| 44A731227-G04 | IC697 products | (IC697ADC701) |

Applicable Documents:

1. *Alphanumeric Display System User's Manual*
2. *Alphanumeric Display System Reference Manual*

Operating Notes

1. **Battery:** The battery must be attached to the ADC board. If the battery is missing or low, power cycling the rack containing the ADC module will result in the message "Failed battery signal" being logged in the PLC CPU fault table for the ADC module's rack and slot position.
2. **PROM Change:** ADC RAM, including the RAM Disk (the RAM: device), is automatically cleared on the first power-up after the ADC system PROM (U60) is changed. You should archive any ADC systems from the ADC module to an attached computer's hard disk (the PC: device) before upgrading the firmware on the module.

Problems Resolved by This and the Previous Upgrade

There were no problems that needed to be resolved by this release. The problems listed below were fixed by the previous release and remained fixed in this release.

%P and %L

1. If an ADS system containing data sources or alarm sources referencing %P or %L PLC locations was executed from the RAM: drive of an "E" revision (only) ADC701 module, files could be corrupted on the ADC module. This could lead to aberrant behavior of the ADC module, including constant resetting of the module or the module OK LED going out.

Remote Racks

2. If an "E" revision (only) ADC701 module were placed in a 90-70 rack other than rack 0 (the rack containing the CPU module), and rack 0 was power cycled independently of the remote rack containing the ADC701 module, the OK LED of the ADC module would sometimes go out, requiring a power cycle of the remote rack to have the ADC module begin functioning again.

ADS Version 4

3. The IC697ADC701C, or later, version of the ADC module is **REQUIRED** to support the ADS Version 4 or higher software release.

GFK-0565K

New Features and Functionality

New Feature for IC697ADC701G (or later revision)

Two Serial Ports for Optical Isolation

1. With this release (IC697ADC701G or later revision), both serial ports on the module now provide optical isolation.

New Features from the IC697ADC701F Release

ADS Version 4

2. The IC697ADC701C, or later, version of the ADC module is **REQUIRED** to support the ADS Version 4 or higher software release.

Deeco ST2200

3. A new target terminal, the Lucas Deeco ST2200 is now supported. Sixty (60) touch points per screen are supported in a fixed predefined (by ADS) grid. Refer to Chapter 4, "Setting Up and Connecting the Display Terminal," in the *Alphanumeric Display System User's Manual*, for more details. Also, a new demonstration system, LUDCO, is supplied to demonstrate the capabilities of ADS running on the ST2200 terminal. Refer to Chapter 5, "Installing the ADS Software," Section 5: "Executing a Demonstration System on the ADC module" in the User's manual for details on executing a demonstration system.

TTY Printer Table

4. A new printer table, the TTY table, is now supported. This table is identical to the ASCII printer table, *except* that a form feed is not automatically generated after 63 lines are printed. Refer to Chapter 7, "ADS Setup Utility," Section 8: "Specifying the Target Printer," in the *Alphanumeric Display System User's Manual*, for more details.

Restrictions and Open problems

None.