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GFK-0159J
August 1997

12 MHz, 32 Kbyte Central Processing Unit

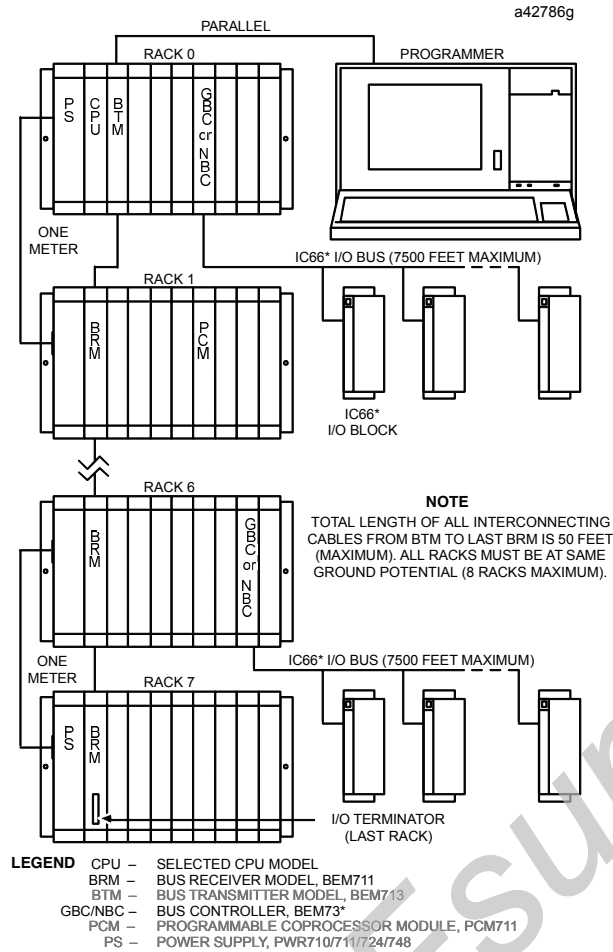


Figure 1. Typical PLC System Configuration Installation

It is the responsibility of the OEM, system integrator, or end user to properly install the PLC equipment for safe and reliable operation. Product manuals provide detailed information about installation, startup, and proper use of the PLC equipment. The installation manual, shipped with your PLC programming software, describes how to properly install the equipment. If the PLC installation must comply with supported standards, such as FCC or CE Directives, please refer to the *Installation Requirements for Conformance to Standards*, shipped with the PLC programming software, for additional guidelines.

- Be sure that power to the PLC is turned off before installing the CPU 731 module
- Connect the battery to either of the battery connectors on the module (see Figure 2).

- Put toggle switch in the STOP position.
- Install in slot 1 of rack 0. (See Figure 1)
- Turn on power.

The module should power up and blink the top LED. When the diagnostics have completed successfully, the top LED stays on and the second and third LEDs are off. The CPU is now ready to be programmed. After the program has been verified the toggle switch may be moved to the appropriate operation mode position. The LEDs indicate the position of the toggle switch, memory protection status, and the state of the program.

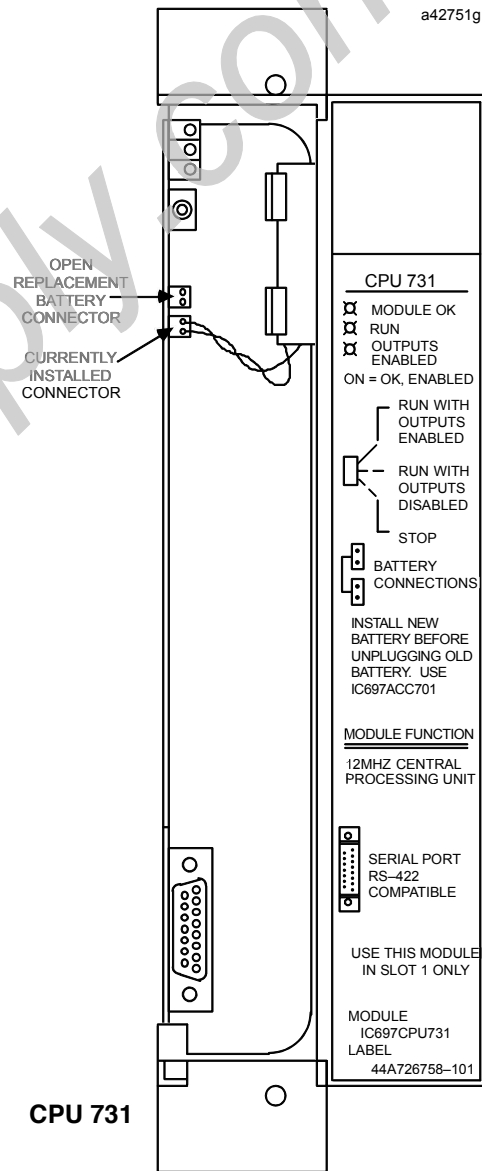


Figure 2. CPU 731- Location of Major Features

Programmer Connection, Parallel

For a parallel interface (MS-DOS programmer only) connect the programmer to the top port connector on the Bus Transmitter Module (IC697BEM713) as shown in Figure 1. Consult Reference 2 for a description of programming functions.

Serial Port

The 15-pin D-connector provides the connection to an RS-485 compatible serial port as shown in Figure 3. This port provides a serial connection to a Standard Serial COM port, or to a Work Station Interface board installed in the programming computer. For more information on serial communications, see references 1, 2, and 3.

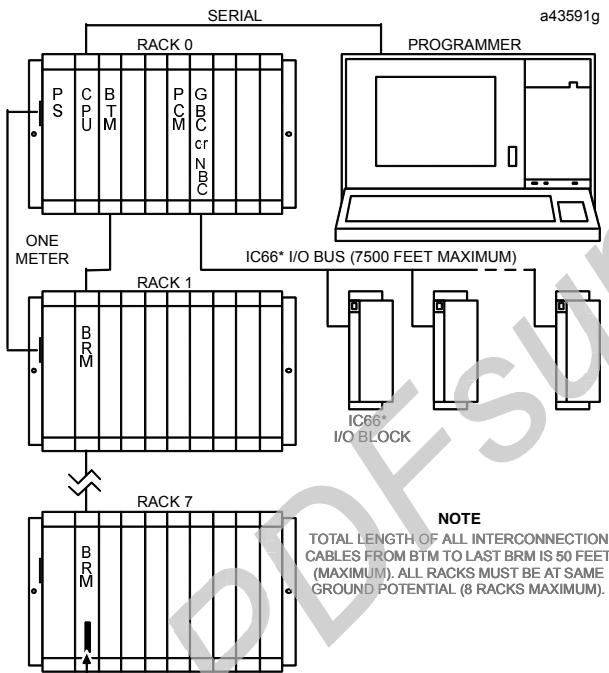


Figure 3. System Configuration, Serial Connection to Programmer

Programmer Connection, Ethernet TCP/IP

Connecting your programmer via an Ethernet TCP/IP network requires installation of an Ethernet Interface module in the PLC. This can be either the Ethernet Controller, IC697CMM741, or Ethernet Interface (Type 2), IC697CMM742. Before connecting your programmer and PLC to the Ethernet TCP/IP network you must set the IP address in the Ethernet Interface. After setting the IP address, connect the PLC and the programmer running Windows software to the Ethernet Interface. For more detailed information on the programmer connection via Ethernet TCP/IP, refer to the *TCP/IP Ethernet Communications (Type 2) User's Manual*, and the Windows programming manual, GFK-1295.

Configuration

The IC697 CPU and I/O system is configured with MS-DOS or Windows based programming software. There are no DIP switches or jumpers used to configure the system. The CPU verifies the actual module and rack configuration at power-up and periodically during operation. The actual configuration must be the same as the programmed configuration. Deviations are reported to the CPU alarm processor function for configured fault response. Consult Reference 1 for a description of configuration functions.

Batteries

A lithium battery (IC697ACC701) is installed as shown in Figure 2. This battery maintains program and data memory when power is removed and operates the calendar clock. Be sure to install the new battery before removing the old battery. If during power-up diagnostics a low battery is detected the Module OK LED (top) will not stay on. Specific indication of a low battery state is detailed in Reference 2.

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Removing a Module

The following instructions should be followed when removing a module from its slot in a rack.

- Grasp the board firmly at the top and bottom of the board cover with your thumbs on the front of the cover and your fingers on the plastic clips on the back of the cover.
- Squeeze the rack clips on the back of the cover with your fingers to disengage the clip from the rack rail and pull the board firmly to remove it from the backplane connector.
- Slide the board along the card guide and remove it from the rack.

Table 1. Specifications for IC697CPU731 †

Battery ShelfLife	10 years at 20° C (68° F)
Memory Retention	6 months nominal without applied power
Current required from 5V Bus	1.0Amp
Time of Day Clock (internal timing) Accuracy	± 3.5 seconds per day
Elapsed Time Clock	± .01% maximum
Serial Port	RS422/485 compatible, programmer serial attachment
VME	System designed to support the VME standard C.1

† Refer to GFK-0867B, or later for product standards and general specifications.

Table 2. References

Reference	Title
1	Programming Software User's Manual
2	Programmable Controller Reference Manual
3	Programmable Controller Installation Manual

Table 3. Ordering Information

Description	Catalog Number
Central processing Unit, 12 MHz, 32 Kbyte, Fixed	IC697CPU731
Lithium Battery	IC697ACC701

Note: For Conformal Coat option, or Low Temperature Testing option please consult the factory for price and availability.