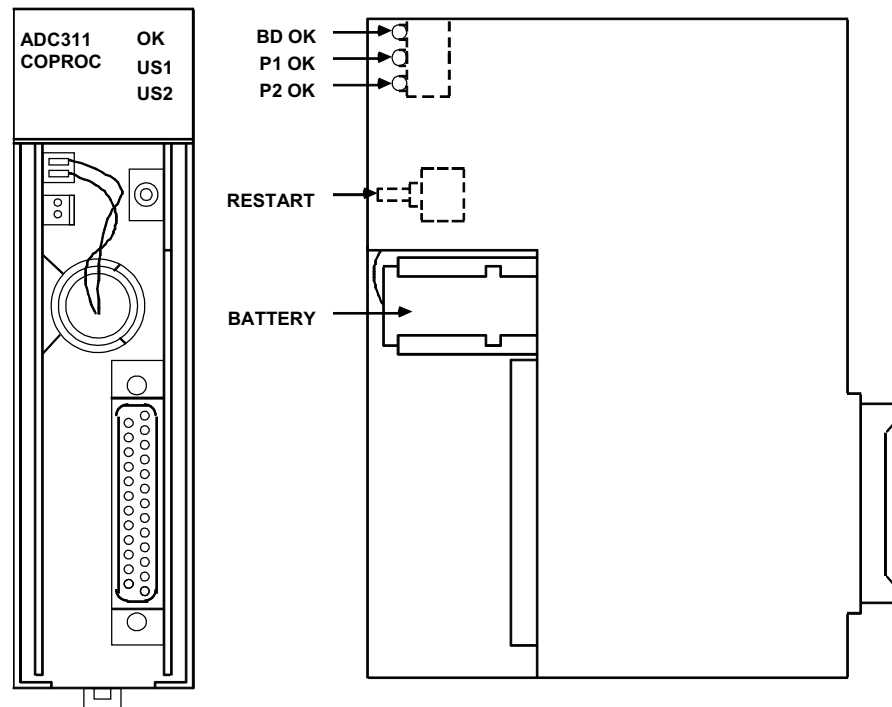


## IC693ADC311 Alphanumeric Display Coprocessor (ADC)

The Alphanumeric Display Coprocessor module (IC693ADC311) is a coprocessor to the Series 90-30 PLC CPU and is used in a CIMPLICITY 90-ADS system. It performs CIMPLICITY 90-ADS display, report, and alarm functions when interfaced to an Operator Interface Terminal (OIT). The OIT can be a variety of GE Fanuc devices, a VT100 compatible terminal, or IBM compatible personal computer running TERMF. Communications with the Series 90-30 CPU is done over the PLC system backplane.



**Figure 8-21. Alphanumeric Display Coprocessor Module (ADC)**

Features of the Alphanumeric Display Coprocessor include:

- Single slot module
- Runs CIMPLICITY 90-ADS System software
- 8 Mhz, 80C188 microprocessor
- High performance access to PLC memory
- Real time calendar clock synchronized to PLC
- Reset pushbutton; three status LEDs
- Soft Configuration (No DIP switches or jumpers)
- Easy fill-in-the-blank system building
- Pop-up windows; pull down menus
- Fifteen User definable function keys per screen
- Printer logging to a serial printer

Multiple Alphanumeric Display Coprocessors can be supported in a single Series 90-30 PLC system with modular CPU (331 and higher) and must be located in the CPU baseplate. This module has a single connector which supports two serial ports, with each port being dedicated to a specific operation. Port 1 is most often used to connect to an RS-232 serial COM port of a computer running GE Fanuc PCM Development Software (PCOP). Alternately, port 1 may be connected to a serial RS-232 printer (see the “Cables” section below.). By default, Port 2 is configured as a 19.2 Kbaud RS-232 port. It can be used to interface to a terminal with keyboard input and screen output.

Serial port programming and configuration are done using a Workmaster II, Workmaster, or an IBM-compatible PC, XT, AT, or PS/2 computer with PCM Development Software (PCOP) installed. The programming computer connects to Port 1 (see the “Cables” section below). The default setting is 19,200 bps. The PCM Development Software is used to configure the serial port parameters and to install the CIMPLICITY 90-ADS software onto the ADC.

There are no DIP switches or jumpers on this board that need to be set for configuration. The ADC module must be configured with the configuration software prior to use.

### Cables

**IC693CBL305** - This Wye cable is used to split out the two ADC port connections from the single connector on the front of the ADC module. This cable is supplied with the module. Please see Chapter 10 for details on this cable.

**IC690CBL702** - This cable provides a direct RS-232 connection between the ADC and another serial device such as a Personal Computer. This cable is not supplied with the module. Please see Chapter 10 for details on this cable.

### Alphanumeric Display Coprocessor Module Documentation:

See the following manuals for detailed information on Series 90-30 Alphanumeric Display Coprocessor Modules:

- GFK-0499 *CIMPLICITY 90-ADS Alphanumeric Display System User's Manual*
- GFK-0641 *CIMPLICITY 90-ADS Alphanumeric Display System Reference Manual*
- GFK-0487 *Series 90-30 PCM Development Software (PCOP) User's Manual*