

# Measurement and control processor

## Measurement and control processor extender

models  
2240A  
2241A

### Features

- Microprocessor control of measurement and control cards
- Combined digital and analog I/O capability
- Easy to understand operation
- Powerful high level HP-MCL programming
- HP-IB\* compatibility gives flexibility of choice of computing controllers
- Adaptive drift correction for analog input
- Verification without need for computer controller
- Submitted for UL listing

### Description

#### HP 2240A MEASUREMENT AND CONTROL PROCESSOR MAINFRAME

The 2240A Measurement and Control Processor consists of a bench top or rack mountable mainframe with self-contained power supply, printed circuit backplane, and a control card. The control card (see functional block diagram below) contains the microprocessor, HP-IB interface, firmware routines (6K x 16-bit ROM's) for execution of measurement and control functions and verification tests in connection with an available test fixture, and 2K bytes of RAM memory for command and data storage.

The 2240A holds four optional measurement or control function cards which can provide a mix of up to 128 analog and/or digital I/O points. A 2241A Extender holds an additional four optional function cards which are addressed through the 2240A for a total capacity of 256 analog and/or digital I/O points.

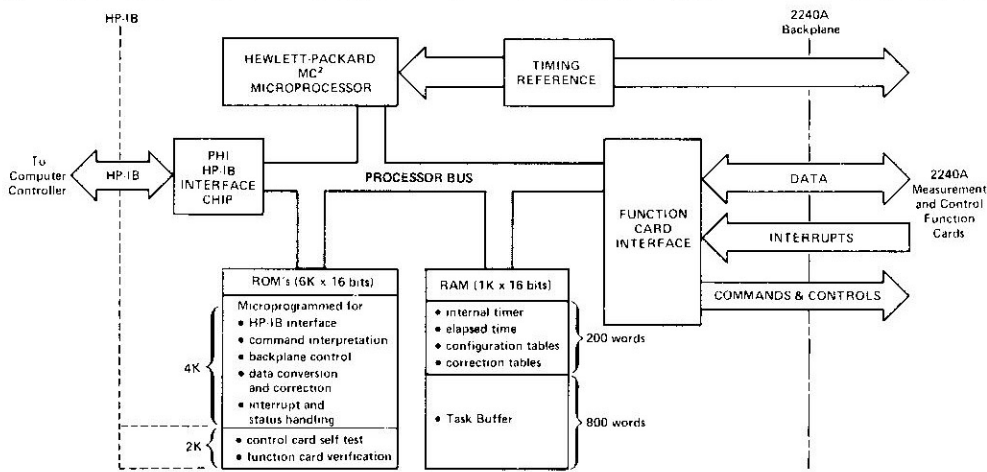


The 2240A mainframe has a ready lamp which shows the 2240A has passed a self-test which is administered by the microprocessor at power on or under program control. With the front cover removed, the 2240A has an additional 5 indicator lights that provide error information during the microprocessor controlled self test and a summary of activity during normal operation. This same activity information is available as summary status under program control.

#### HP 2241A MEASUREMENT AND CONTROL PROCESSOR EXTENDER

The 2241A Extender is identical to the 2240A mainframe minus the microprogrammed HP-IB control card. Interconnecting cables to the 2240A are supplied with the 2241A.

\*HP's implementation of IEEE Standard 488 and ANSI Standard MC1.1 "Digital Interface for Programmable Instrumentation."



HP 2240A Control Card Functional Block Diagram