

500-500A / MEASUREMENT AND CONTROL SYSTEM

SPECIFICATIONS: 4/12/88 REVISED 6/16, 6/21 (E. Bennett)

PART NUMBER

SPEC-500A

INTERFACE: For use with IBIN-A or IBIN-PS/2 PC bus interface cards.

MAINFRAME MODULE CAPACITY*:
User configurable up to 10 modules per mainframe.

MAXIMUM NUMBER OF MAINFRAMES PER HOST COMPUTER: 4.

MAXIMUM CHANNEL CAPACITY PER MAINFRAME:**

Analog Input: 304 single-ended, 152 differential.

Analog Output: 50.

Digital Input: 160.

Digital Output: 160.

Frequency Input: 10.

Pulse Counting: 40.

Stepper Motor Control: 8.

GPIO: 1 module per system for control of up to 14 instruments with IEEE-488 interface.

SELF-ID A/D CONVERTER: For identification of any module in the Series 500 module library.

RESOLUTION: 8 bits.

POWER SUPPLY CAPACITY*:**
+5V @ 3A maximum.
+15V @ 0.8A maximum.
-15V @ 0.8A maximum.

AC POWER REQUIREMENTS:

Line Voltage: Selectable: 100V, 120V, 220V, and 240V.

Line Frequency: 50Hz to 60Hz.

OPERATING TEMPERATURE:
0° to 50°C.

STORAGE TEMPERATURE:
-200° to +60°C.

ISOLATION: Mainframe and non-isolated cards are referenced to chassis ground. Isolated cards can accommodate $\pm 500V$ peak common mode voltage.

DIMENSIONS, WEIGHT: 114mm high x 330mm wide x 286mm deep (4-1/2 in. x 13 in. x 11-1/4 in.). Net weight 5.7kg (13 lbs.).

CERTIFICATION: Meets FCC part 15J, Class A.

*Restrictions exist on card slot location and combinations. Refer to manual for details. Some combinations require external power.

**Maximum channel capacity is with entire system dedicated to that function. Refer to manual for individual card capacity to determine specific system capacity.

***Derate output current 10% for 50Hz operation.

ACCESSORIES AVAILABLE:

- 500-AMM1 AMM1 8-Channel s/e Master Measurement Module w/12-Bit A/D
- 500-AMM2 AMM2 16-Channel (8 Differential) Master Measurement Module w/16-Bit 50kHz A/D
- 500-AIM2 AIM2 32-Channel s/e High Level Analog Input Module
- 500-AIM3 AIM3 32-Channel (16 Differential) High Sensitivity Analog Input Module
- 500-AIM4 AIM4 4-Channel Isolated Analog Input Module
- 500-AIM5 AIM5 4-Channel Isolated Low Level Analog Input Module
- 500-AIM6 AIM6 4-Channel RTD Analog Input Module
- 500-AIM7 AIM7 16-Channel Thermocouple Input Module
- 500-AIM8 AIM8 4-Channel Strain Gage Analog Input Module
- 500-AIM9 AIM9 2-Channel LVDT/RVDT Analog Input Module
- 500-AOM1/2 AOM1/2 12-Bit D/A, 2-Channel Analog Output Module
- 500-AOM1/5 AOM1/5 12-Bit D/A, 5-Channel Analog Output Module
- 500-AOM2/1 AOM2/1 16-Bit D/A, 1-Channel High Resolution Analog Output Module
- 500-AOM2/2 AOM2/2 16-Bit D/A, 2-Channel High Resolution Analog Output Module
- 500-AOM3 AOM3 4-Channel Current Loop Output Module
- 500-AOM4 AOM4 4-Channel Programmable Excitation Output Module
- 500-DIM1 DIM1 16-Channel Isolated Digital Input Module
- 500-DIO1 DIO1 32-Channel TTL Digital Input/Output Module
- 500-DOM1 DOM1 16-Channel Isolated Digital Output Module
- 500-EXTND Module Extender Board
- 500-GPIB IEEE-488 Instrument Controller Interface Module
- 500-PCM1 PCM1 4-Channel AC Power Control Module (includes 4 ea. 500-OAC1)
- 500-PCM2 PCM2 16-Channel AC/DC Power Control & Sensing Module (no relays)
- 500-PIM1 PIM1 8-Channel Frequency Measurement Module
- 500-PIM2 PIM2 4-Channel Event Counting Module
- 500-PROTO Prototyping Module
- 500-STEP1 STEP1 μP Stepper Motor Controller Module
- 500-STEP2 STEP2 1-Channel Stepper Motor Indexer Module