500-500A / MEASUREMENT AND CONTROL SYSTEM

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

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.

GPIB: 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 accomodate ±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