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# Model 706 Instruction Manual

Contains Operating and Servicing Information for the Model 706 Scanner

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## SPECIFICATIONS

#### GENERAL

- DISPLAY: Seven 0.5" LED digits with decimal point, function and IEEE status annunciators.
- INTERNAL CLOCK: Displays hours/minutes/seconds or date/ month; less than 1 minute/month error (typical).
- BATTERY BACKUP: Rechargeable 3.6V nickel-cadmium, 1 month retention of data with unit turned off.
- OPERATING ENVIRONMENT: 0° to 50°C, 0% to 80% relative humidity up to 35°C.

STORAGE ENVIRONMENT: -25°C to 65°C.

CONNECTORS; Four BNC (TTL compatible): External Trigger, Alarm Out/Serial-In, Channel Ready, Serial Out.

CAPACITY: Ten plug-in cards per mainframe.

- EXPANSION CAPACITY: Daisy chain allows up to 4 SLAVE units with 1 MASTER unit.
- SWITCHING RATE: 100 channels/second (10ms), programmable to 1 channel/16 minutes (999.999s).
- **RELAY DRIVE:** 4A minimum.
- POWER: 90-125V or 195-250V (internally selected), 50Hz to 400Hz. 75V•A maximum.
- DIMENSIONS, WEIGHT: 178mm high × 438mm wide × 448mm deep  $(7'' \times 17 \ 1/4'' \times 17 \ 3/8'')$ . Net weight 8.6kg (19 lbs). ACCESSORIES AVAILABLE:

- Model 7008-3: IEEE-488 Cable, 0.9m (3 ft.)
- Model 7008-6: IEEE-488 Cable, 1.8m (6 ft.)
- Model 7010: IEEE-488 Adapter for Model 85 Computer.
- Model 7024-1: Triaxial Cable, 0.3m (1 ft.)
- Model 7024-3: Triaxial Cable, 0.9m (3 ft.)
- Model 7024-10:Triaxial Cable, 3.0m (10 ft.)
- Model 7051-2: BNC to BNC Cable, 0.6m (2 ft.)
- Model 7051-5: BNC to BNC Cable, 1.5m (5 ft.)
- Model 7052: 4 × 5 Matrix Card Model 7053:
- High Current Scanner Card Model 7054: High Voltage Scanner Card
- Model 7056: General Purpose Scanner Card
- Model 7057A: Thermocouple Scanner Card
- Model 7058: Low Current Scanner Card
- Model 7059: Low Voltage Scanner Card
- Model 7061: Universal Interface Card
- Model 7068: Fixed Rack Mounting Kit for 706
- Slide Rack Mounting Kit for 706 Model 7069:

### **IEEE-488 BUS IMPLEMENTATION:**

- Multiline Commands: DCL, LLO, SDC, GET, GTL, UNT, UNL, SPE. SPD.
- Uniline Commands: IFC, REN, EOI, SRQ, ATN.
- Interface Functions: SH1, AH1, T6, TE0, L4, LE0, SR1, RL1, PP0, DC1, DT1, C0, E1.
- Programmable Parameters: Display Mode, Output Format, EOI, SRQ, First, Last, Open, Close, Display Channel, Alternate Output, Pole Mode, Date Format, Save/Recall, Reset, I/O Port, Time, Date, Settle Time, Interval Time, Alarm Time, Program Mode, Trigger Mode, Terminator, Self Test.
- Digital I/O Port: A separate edge connector consisting of eight input and eight output lines as well as common and +5VDC. Outputs will drive one TTL load. Inputs represent one TTL load. Mating connector supplied.

#### FRONT PANEL PROGRAMS

0 - Digital I/O 1* - Date Format	Read or change state on digital I/O port. Changes date display between MM.DD and DD.MM.
2* - Settle Time	Time to output CHANNEL READY pulse after closing relay.
3* - IEEE Address	Set bus address; not programmable from bus.
4* - Save Setup 5* - Recall Setup 6* - Poles	Stores present relay setup in buffers 1-75. Recalls relay setup in buffers 1-75. 1, 2, or 4-pole configuration for scanning (1-pole requires 7056). 0-pole for matrix card.
7 - Alarm Time	Set time for Alarm output pulse; repeats daily.
8 - Self Test	Check RAM, ROM, LEDs.
90* - Stand Alone	Single 706 configuration.
91* - Master	Daisy Chain configuration.
92* - Slave	Daisy Chain configuration.
93 - Inspect	Display closed relays only.
94 - Clear	Clear buffer location.
99 - Reset	Reset battery backup parameters to fac- tory values.
*Battery backed up.	

Specifications subject to change without notice.