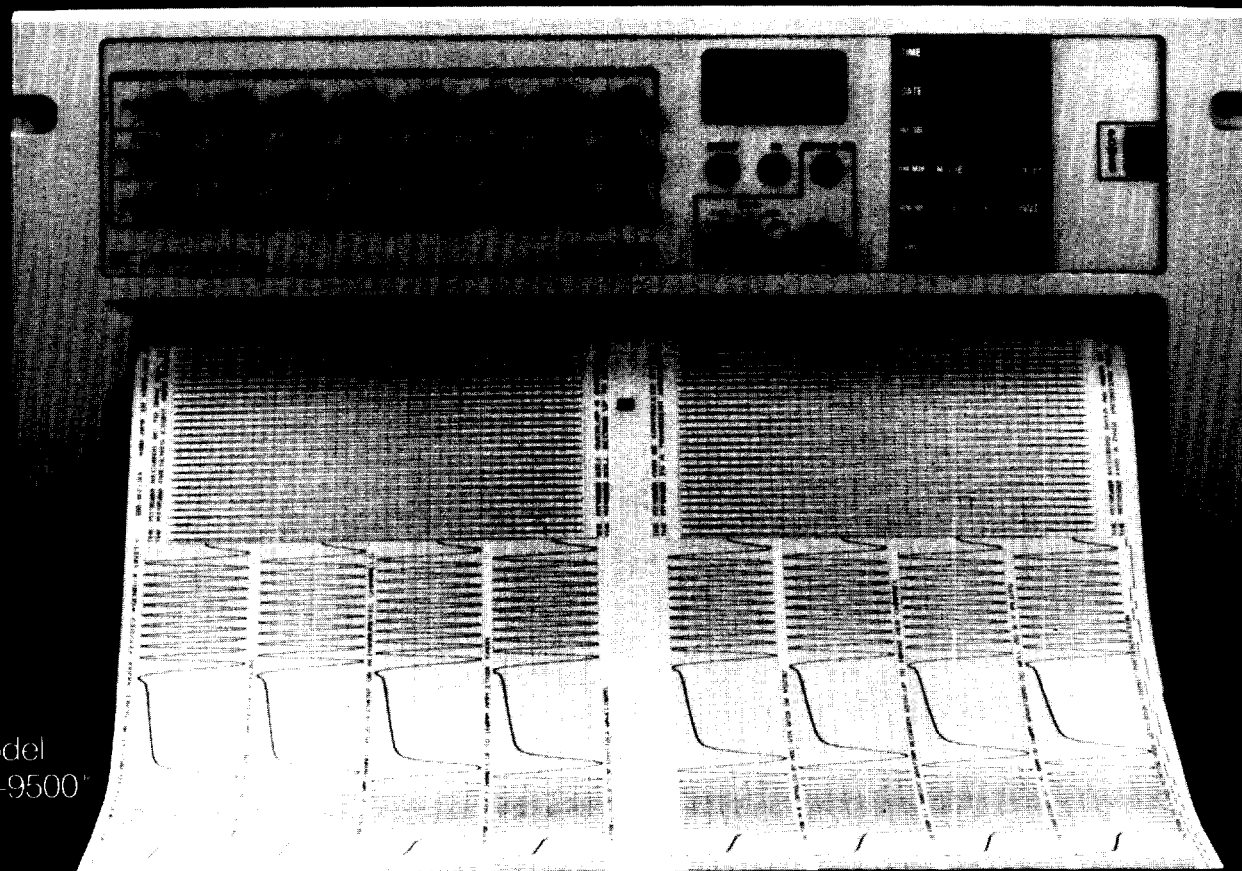


**NEW!
FROM ASTRO-MED**

NEW TECHNOLOGY 8-CHANNEL RECORDER

Records DC to 5 KHz Real Time

- No pens or styli
- No ink, toner or chemicals
- Uses low-cost thermal paper
- Prints chart grid and data simultaneously
- DC to 5 KHz real time
- Transient capture
- Channels may be overlapped
- Prints waveforms and alphanumeric



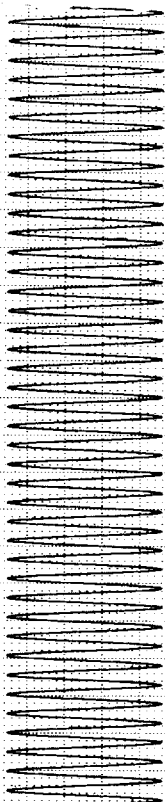
Model
MT-9500

Eight full 40 mm channels

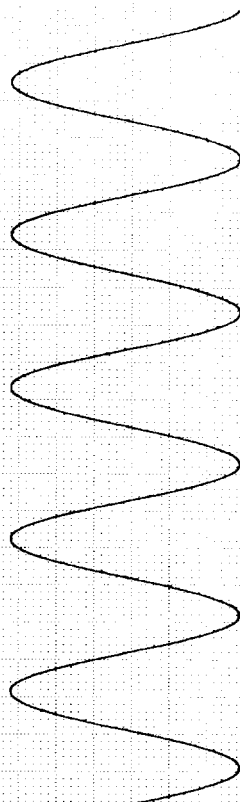
This is a full-size unretouched chart produced on an MT-9500 8-channel recorder. Note how the eight 40 mm wide channels are instantaneously expanded and overlapped to facilitate comparative waveform analysis.

< 15:23:16 *27 JAN 87 *PLAYBACK- *TIME SCALE< 15:23:25 *27 JAN 87 *SPD: 25 MM/S *TIME SCALE

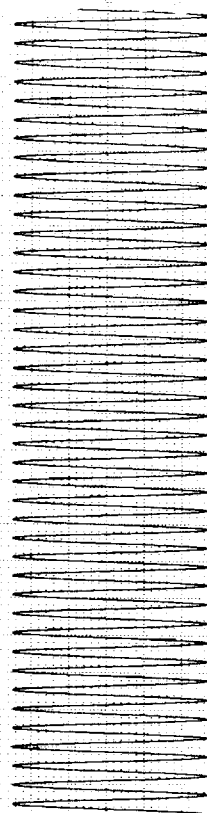
CHANNEL #1 ENTER UP TO 100 CHARACTERS FOR PRINTING
CHANNEL #2 DISPLAY WAVEFORMS ON 8 40 MM GRIDS, OR



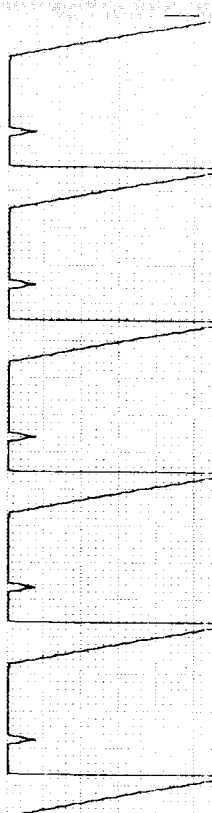
CHANNEL #1 ENTER UP TO 100 CHARACTERS FOR PRINTING



CHANNEL #2 DISPLAY WAVEFORMS ON 8 40 MM GRIDS, OR 0V

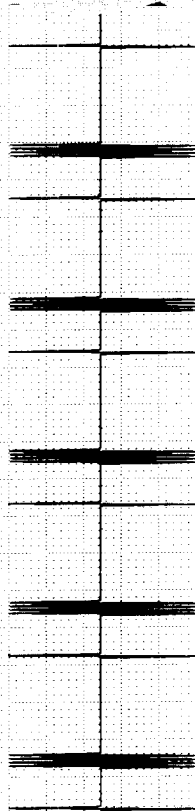


CHANNEL #3 NO PENS, INKS, LIGHT BEAMS, TONERS, SPROCK-

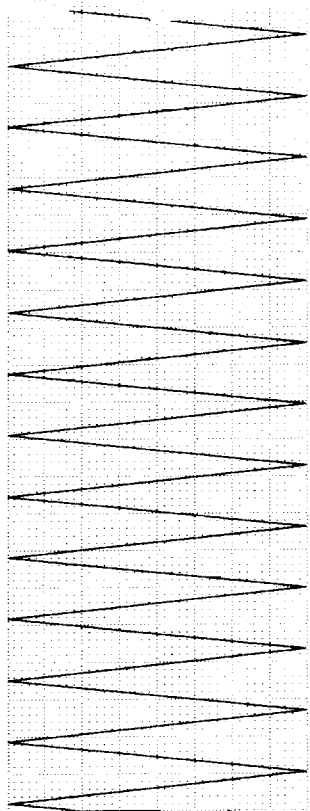


CHANNEL #3 NO PENS, INKS, LIGHT BEAMS, TONERS, SPROCK-
CHANNEL #4 DC TO 5 KHZ FREQUENCY RESPONSE FOR AMAZ

CHANNEL #5 SNAP SHOT DATA IN OUR 1 MEGABYTE RAM, AN
CHANNEL #6 REPLAY SNAP SHOT DATA IN STRIP CHART, X-Y



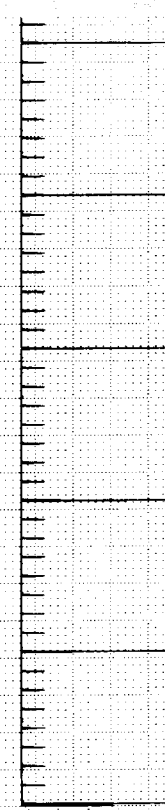
CHANNEL #5 SNAP SHOT DATA IN OUR 1 MEGABYTE RAM, AN



CHANNEL #6 REPLAY SNAP SHOT DATA IN STRIP CHART, X-Y



CHANNEL #7 NOTE THE CLEAR, CRISP TRACINGS OF ALL WAC



CHANNEL #7 NOTE THE CLEAR, CRISP TRACINGS OF ALL WAC
CHANNEL #8 SYSTEM CHANNEL PRINTS TIME, DATE, CHART

Note also the valuable alphanumeric annotation beside each channel. The chart grid and data are printed simultaneously and feature outstanding clarity at all recording speeds.

The MT-9500 High Speed Direct Writing Recorder is the first truly new recorder to emerge in decades. Gone forever are pens, styli, pen motors, inks, toners, expensive photosensitive recording papers and the unreliability of an electromechanical machine. Instead, the MT-9500 employs a thermal printhead combined with powerful microcomputers and proprietary software to emulate and exceed the performance of the best analog recorders in the world. In the MT-9500, only the electrons and the paper move! The MT-9500 prints the chart grid and data simultaneously with 12-bit precision and

unbelievable clarity at all recording speeds.

The absence of pens or other mechanical devices in the MT-9500 makes it possible to combine waveform data with alphanumeric, do X-Y plots, as well as capture transient data and do instant replays to achieve optimum resolution.

The MT-9500 provides 8 analog channels with full 40 mm wide amplitudes plus 8 alphanumeric annotation channels, which can be programmed from the front panel. The MT-9500 will also accept 32 digitized channels. The MT-9500 has provision for computer communication, of course, through RS-232 and IEEE-488 interfaces.

Specifications, Performance and Engineering Data

Recording Method Direct writing fixed thermal array

Recording Medium Low cost permanent thermal paper, blue or black imaging

Record Width 15½"

Type of Data	Number of Channels		
	Analog Input	Digitized Input	Self Generated
Analog	8	32	—
Event Marker	Up to 9, any combination	—	—
Alphanumeric Notation	—	—	—
System Log	—	—	1

Analog Channel Width ... Each analog channel is 40 mm wide; channels may be expanded and overlapped to 160 mm

Frequency Response ... DC to 5 KHz (Real Time)

Analog Input ± .25 volts full scale, calibrated; ± 10 volts max, uncalibrated; single ended; 2 megohms impedance.

Transient Capture Mode ... During real time recording an instantaneous snapshot may be taken and played back at any time. Transient capture may also be initiated by setting trigger level and trigger position.

Zero Position Continuously adjustable over full channel width via front panel control

Gain Calibration Front panel 'CAL' position at ± 250 mv

Zero Calibration Front panel 'ZERO CAL' position

Event Inputs TTL low or switch closure

Trigger Input TTL low or switch closure

Remote Start/Stop TTL low or switch closure

Chart Speeds Crystal controlled stepper provides 300 speeds ranging from 1mm/hr to 100 mm/sec; in transient capture mode, effective chart speeds to 1,000 mm/sec

Communication Ports ... IEEE-488, RS-232

Operating Modes 1. Eight channel real time analog recorder
2. 32 channel real time digitized recorder
3. Transient capture analog recorder
4. X-Y recorder
5. Line printer

Power Requirements ... 115/230 VAC, 50/60/400 Hz, 500 watts max

Dimension & Mounting ... Standard 19" rack; occupies 10½" panel space

Signal Conditioners Signal conditioners for wide variety of inputs available; see separate data sheet



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