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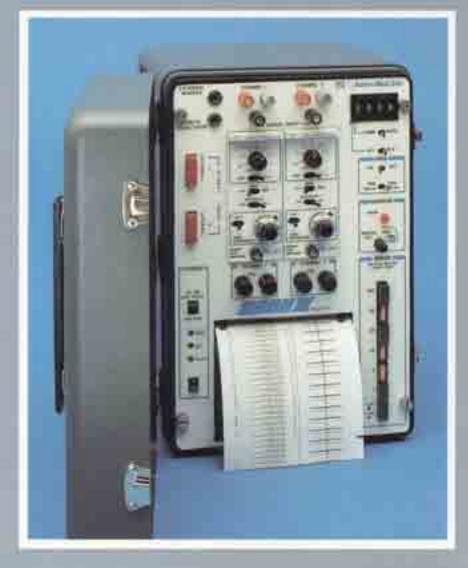
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# 2-CHANNEL NEW TECHNOLOGY FIELD RECORDER

Solid-state, rugged design for Industrial, Utility, Geological and other applications



- DC to 500 Hz Frequency Response
- Separate or Overlapping Waveforms
- No Styluses, Inks or Toners
- Text Printing on the Chart
- AC, 12 VDC or Built-In Battery Operation
- Proven Reliability
  —Full 2-Year
  Warranty

#### The World's Only Field Recorder

The Dash II model MT is the only recorder in the world especially designed for field service Built for reliable operation under the most demanding physical and environmental conditions, the Dash II is equally at home logging data from oil wells: monitoring operations at steel and paper mills and industrial processing plants, accurately recording data while strapped onto bouncing army tanks; monitoring nuclear power stations, or at work in electric power utilities or troubleshooting telephone lines. Other recorders, with their delicate moving parts or ink writing systems, just can't survive in these applications.

The Dash II operates from various power sources: 110/220 VAC, external 11-18 VDC or through built-in rechargeable batteries fasting up to three hours.\* Recharge while recording. Just plug the unit into AC line power, and the batteries recharge as the recorder

runs.

Built into a tank-tough aluminum case, and weighing only 32 lbs., the compact Dash II is easy to carry

\*Buttery line between the unsupers is afforcind by chart proper speed and angred amphicular and fineciatory.

Astro-Med's New Technology and the Dash II model MT

Years ago, the evolution of recorders came to a natural end because of their dependence on moving mechanical parts such as pen motors. And so recorders have continued to be inaccurate and troublesome with breakable pens and messy inks. Enter Astro-Med's New Technology: It eliminates old tashioned mechanical and liquid components which inhibit and delay the recording process. In the Dash II,

wherever you go it fits neatly beneath most airline seats. A convenient pouch on the side of the case carries an operating manual, extra chart paper, and your signal hook-up cables.

#### Accurate, Crisp, Sharp Charts

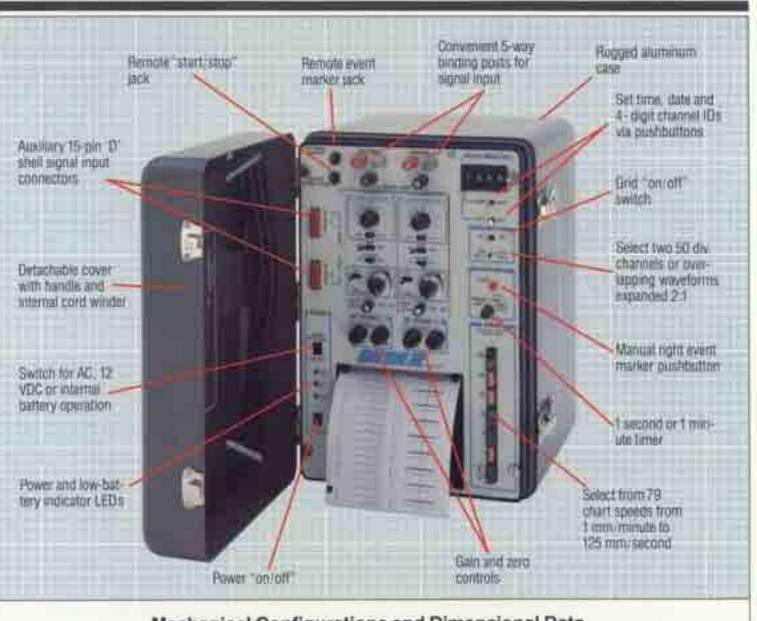
The Dash II produces remarkably vivid, sharp, uniform traces and prints clear text. And skipping, a particularly troublesome recorder problem, has been eliminated because there are no styluses or pens.

Accuracy is assured by the Dash II's 10-bit digital technology, with a high sampling rate that permits signals as short as 1 millisecond to be faithfully recorded. And accuracy is preserved because the grid and data are printed simultaneously, completely eliminating chart paper drift and skew.

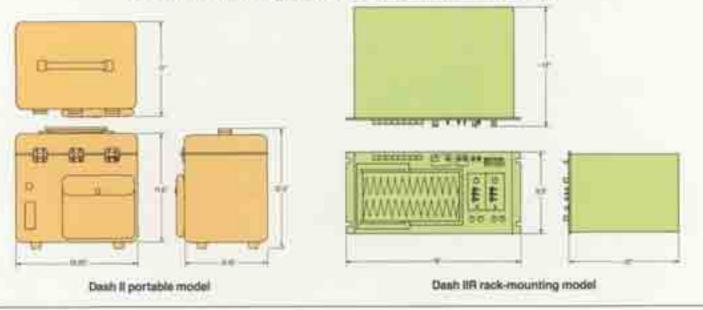
Full Two-Year Warranty

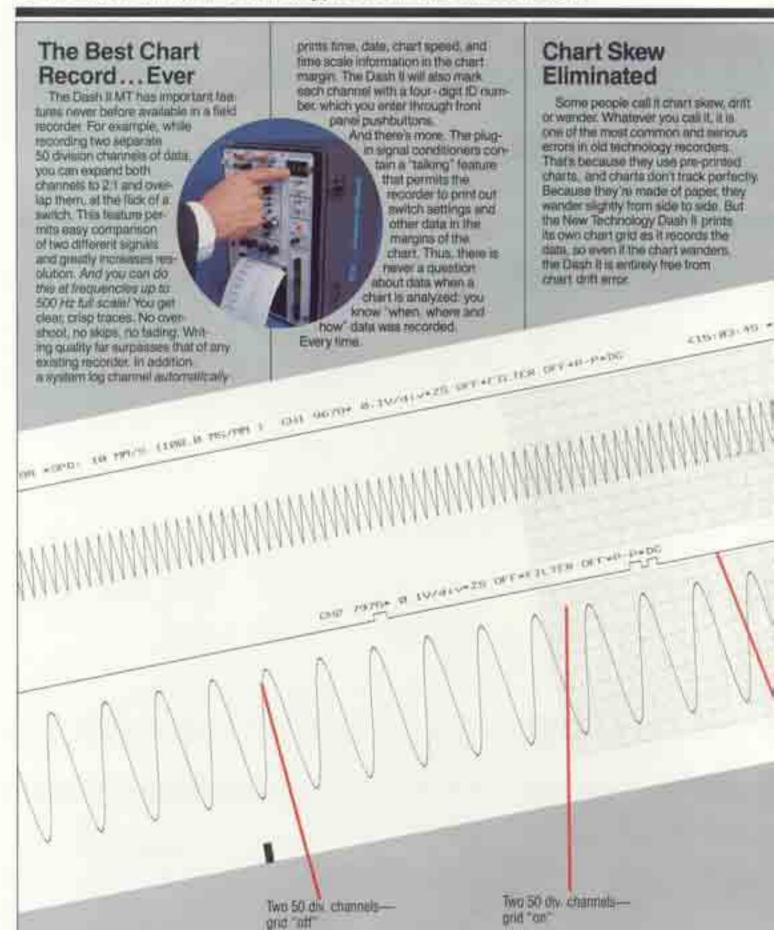
The remarkable reliability of the New Technology has made it possible to offer an unprecedented full 2-year warranty for both parts and labor for the Dash II. Without pens or styluses to break, no fluids or chemicals, no exotic plumbing, and with no moving parts, the Dash II is virtually trouble-free.

only the chart paper and the electrons move. Incoming data is processed digitally with 10-bit accuracy, and waveforms and other data are printed with a high density their printhead. And the tracings are unbelievably clear, accurate and tree of any distortion.

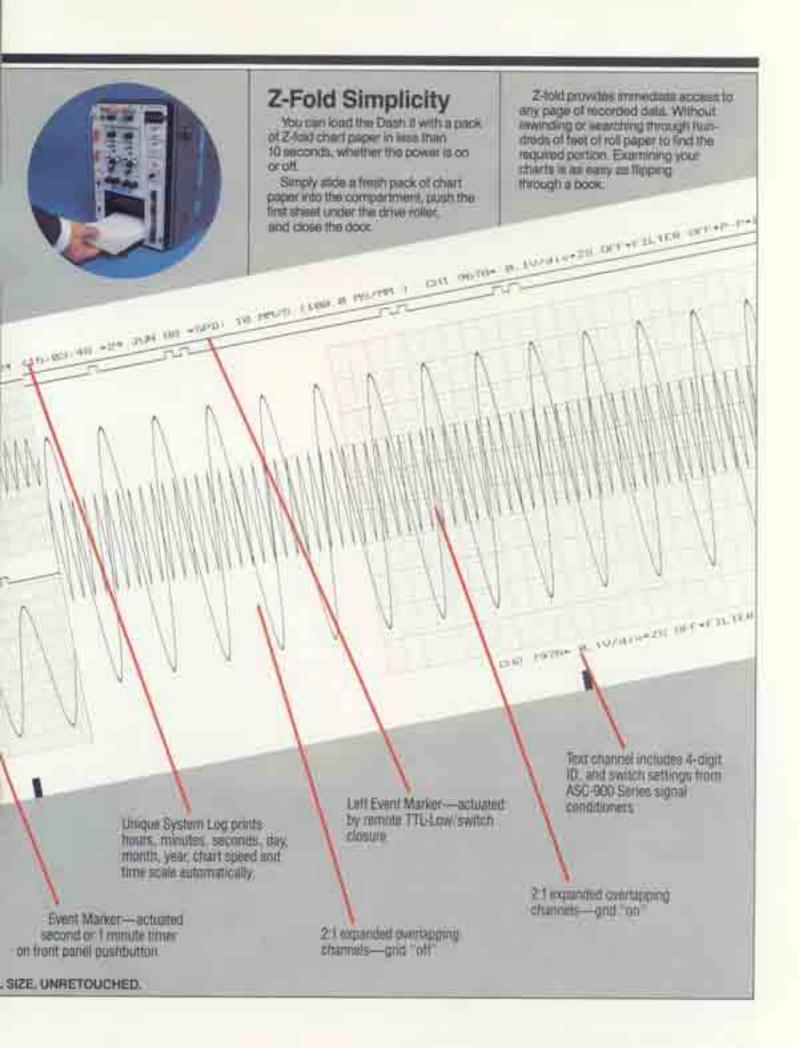


### Mechanical Configurations and Dimensional Data





CHARTS SHOWN ACTUA

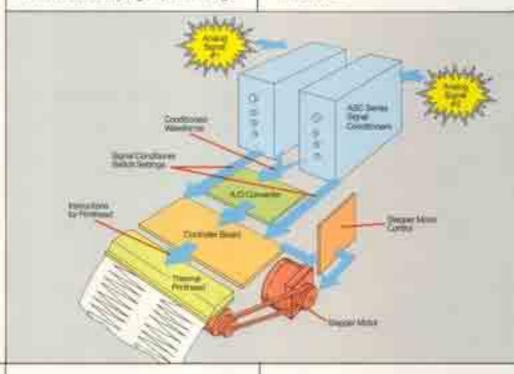


# How the New Technology Works

ASC-900 series amplifiers condition your incoming analog signals, and then send them to the A/D board. Here, the data is sampled at 5 KHz and converted into a continuous stream of digital values. The controller board converts the signals into either separate 50 division or 2:1 expanded channels, selectable via a front panel switch.

Each of the 800 writing elements in the printhead receives up to 1000 print commands per second. This creates an instantaneous, permanent record on thermally sensitive paper, which is moved across the printhead by a precise crystal-referenced stepper motor. The extremely

smooth, sharp, and clear traces are visible immediately after printing and need no developing or processing. Grids and event markers are generated simultaneously with waveforms.

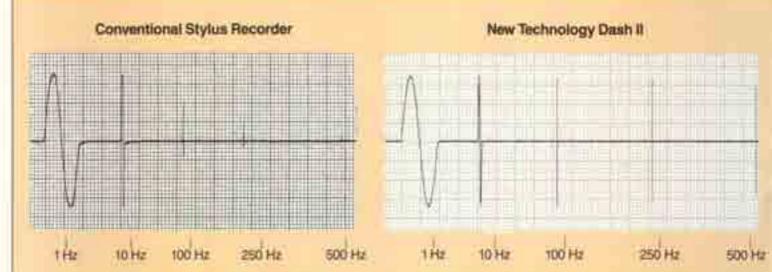


# High Frequency Response

The high sampling rate allows transients as short as 1 ms to be faithfully recorded. Because of the high printing rates, complete waveform analysis is limited only by paper speed, not by the filtering and attenuating effect of a

moving pen or stylus.

The actual chart sample below illustrates how accurately single cycles of varying frequencies are faithfully recorded by the Dash II.



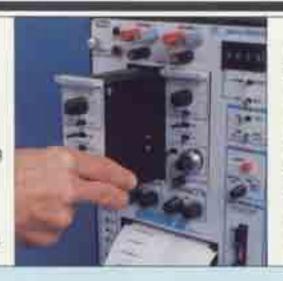
Unretouched chart demonstrates characteristic non-linear frequency response of conventional stylus recorder. Note dramatic attenuation as frequency increases.

Ten-fold improvement in linearity and frequency response of Dash II reproduces 500 Hz signal within 3 dB.

## I ig-In Signal Conditioners

A complete family of Astro-Med ASC plug-in signal conditioners adapts the Dash II instantly to specific applications such as monitoring power lines, industrial processes, aircraft and automotive functions, and many more.

Each signal conditioner is complete with all controls required for its



particular function. Signal conditioner models include General Purpose ASC-902, High Voltage ASC-903, DC Bridge ASC-906, High Gain ASC-908, Medium-High Gain ASC-909, Thermocouples ASC-910J and ASC-910K. Frequency-to-Voltage ASC-912, and Logarithmic ASC-913.

Complete specifications for all models are provided in a separate brochure.

# Specifications, Performance and Engineering Data

Recording Method	Dreed writing with mermal array premised. (No moving parts)	Gailn Control	CAL and variable (0-100%) we from personal pot/section.
Recording Medium	Low cost permanent thermal paper, black imaging	Chart Speeds	19, from 1 and min to 125 minute.
	- ACC-	Chart Motor Type	Shapet crystal-retirerced
"hart Wiltin	3" (125 mm)	Chart Speed Accuracy	=0.2%
Chart Langth	160" (45.5 mmm)	Grid Types	Two 50 dis. —10 major, 50 minor autority/sims
Number of Channels	Two, pout two avent markers.		Cree-SG (fw — 1/1 mague: 50 mmor ILXXXII-mione
Frequency Responen	:DC 51506 Ht 527 Acass - 3.69	Grid Control	On off via hort gonel switch
Resolution	200 oct-per-rach across profitment	Dimensions	Persatio Mooer 12" (30.5 em) D x 16" (25.4 em) W x 131+" (33.7 em) H
Limitety	Workin 0.2% of full scale		Rack Mount Model: 12" (30.6 cm) D x 19" (48.3 cm) W x 81" (22.3 cm) H
A D Type	16-bit	Weight	.03 lbs (14.5 kg) with hartween )
Chart Drift	Not appricable price grad is printed armin langually with walestorn	Temperature Range	8-45°C (30-1137°), 5-95°s PH, operating
Signal Input	, foliation with ASC-900 Signal Conditioner model used, use examples betting ASC-902 General Purpose—1 my darter 500 V	Power Requirements	AC: T10:230 VAC emiscrobis: 48-440 Hz: DC: 11-16 VDC. brance: fault-in batteries (portable model prity)
	ASC-903 Fligh Vollage—0.8 micrity to 1600 V ASC-908 High Balli—1 µV/dw to 5 V	Batterins	Rechargeable get type, factory Hazalius. 2-3 hours of operation per charge
Input Type	Differential or single-sinted (see ASC-900 brochure)	Charger & Indicator	Built-in charger Recharges automatically when plugged into AC line power Front panel LEDs and line low battery whit power
hout Connector	:5 way binding posts, plus 16 pin 10" shells	Manufactured	USA
Zero Control	Full acase via front panel pol.	Warranty	Зуншт.

#### Artisan Technology Group is an independent supplier of quality pre-owned equipment

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Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

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