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DATA ACQUISITION RECORDERS



- Signal conditioning for any application
- 10.4" color monitor for real-time viewing and playback
- Internal 8 GB hard drive for data capture
- ✤ 100 MB ZIP[®] drive and Ethernet for data transfer
- ✤ 8 channels with 20 KHz per channel sample rate
- PC-based data review and analysis software
- Rugged, compact & portable less than 20 lbs.



POWERFUL FEATURES - LIGHTWEIGHT, RUGGED

The Dash[®] 8 series from Astro-Med are powerful data acquisition recorders. Ideally suited for both chart recording and data acquisition, they were designed for today's demanding applications.

BIG COLOR MONITOR

The Dash 8 series recorders feature a built-in, 10.4-inch color monitor that adds another dimension to chart recording. Signals may be displayed in realtime on the monitor, saving chart paper during recorder setup. And to make data even easier to interpret, the Dash 8 allows you to make each channel a different color.

VERSATILE INPUTS

There are two powerful models to choose from. The Dash 8n offers isolated inputs up to 250 VRMS, build-in offset adjustment and an almost unlimited number of full scale selections, giving you the versatility you need for almost any voltage recording. The Dash 8u has flexible universal inputs making your connection even easier. From single ended and differential voltage to thermocouple (J, K, E, T) and DC bridge inputs, the Dash 8u allows you to connect almost any signal without external conditioning. The Dash 8u also supports optional input modules for RTD, isolated high voltage and frequency to voltage.

CHART PRINTING

With all the powerful data capture and display features of the Dash 8 series, it's easy to forget about the integral chart recorder. The high resolution, 8.5 inch chart give you real-time recording at the push of a button. Chart speeds are front panel selectable from 1mm per hour to 100mm per sec. And channels can be displayed in any format, from individual to overlap to completely custom.

FREQUENCY RESPONSE

With 16-bit A/D converters sampling at 20,000 samples per second for each channel, the Dash 8 series gives you the

frequency response you need to record all your data. Signals up to 2 kHz may be displayed, printed and stored to memory. MEMORY AND STORAGE

Sometimes real-time chart recording is not enough. That's why we designed the Dash 8 series to be both a chart recorder

and a data acquisition system. The internal, 8 Gbyte hard drive lets you capture hours, days or even weeks of data for later review and analysis. And best of all, data can be captured in parallel with (or in place of) real-time recording. With the Dash 8 series you get the best of both worlds, in one compact, rugged package. REVIEW AND PLAYBACK

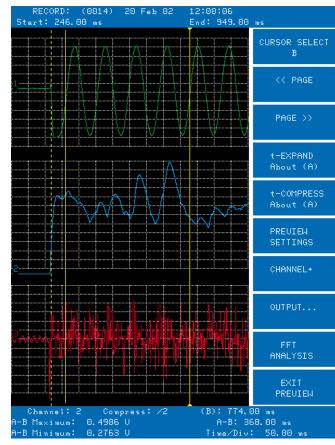
Once data has been captured to memory, the Dash 8 series monitor really goes to work. Captured data may be displayed on the screen, giving you a quick look at all your data files. On-screen cursors handle the rest, providing timing and amplitude information. For even more detail, simply zoom in on important events and print the screen. With the Dash 8 series recorders, you print only what you want.

SETUP YOUR ENTIRE TEST FROM YOUR PC

AstroSET, the Dash 8 series offline setup program, makes setting up a test easier than ever. With its intuitive interface, this Windows-based program gets you up and running in minutes.

INTELLIGENT TRIGGERING

The Dash 8 series recorders offer versatile triggering including waveforms, event pattern, manual pushbutton or an external source. In addition, the recorder can be set to trigger at a specific time, or periodically at a fixed time period.



GET YOUR DATA QUICKLY AND EASILY TO A PC

The Dash 8 series offers a variety of option to get captured data to your PC quickly and easily. For smaller files, simply copy data to the Dash 8's ZIP drive and carry it to your PC. When direct connection to a PC is desired, the Dash 8 has both an Ethernet and SCSI port for data transfer.

Real-time full size color monitor.

LIGHTWEIGHT, RUGGED, AND PORTABLE

The Dash 8 series pack a lot of power into a compact aluminum case. Weighing under 20 pounds, these recorders can easily fit under the seat of an airplane.

SPECIFICATIONS

DASH 8N INPUTS

DASH 8N INPUTS
Number of Channels 8
Input Type Isolated, single-ended
Connector
UL Rated Input 250 Vrms
Measuring Range
Bandwidth 2 kHz (-3dB)
DASH 8U INPUTS
Number of Channels 8
Input Type Universal
Connector Screw terminal with removable connector
VOLTAGE INPUTS
Types Isolated single-ended, isolated differential
Absolute Maximum Input Single-ended: 40 V differential: 40 V
Measuring Range Single-ended: 500 mV to 40 V full scale
Differential: 5 mV to 500 mV full scale
Bandwidth 2 kHz (-3dB)
THERMOCOUPLE INPUTS
TypesJ, K, E and T
Absolute Maximum Input 40 V
Measuring Range Type J: 0° C to 760° C
Type K: 0° C to 1370° C
Type T: -160° C to 400° C
Type E: -100° C to 1000° C
Bandwidth 10 Hz (-3dB) Isolation
Engineering Units °C or °F
DC BRIDGE INPUTS
Type Isolated full bridge
Absolute Maximum Input40 V
Excitation Isolated 10 V at 30 mA
Measuring Range 5 mV full scale to 500 mV full scale
Bandwidth 2 kHz (-3dB)
Isolation
OPTIONAL DASH 8U MODULES
RTD-8uSupports platinum RTD's
HV-8u Accepts voltages up to 250 Vrms
VHV-8u Accepts voltages up to 600 Vrms
FV-8u For frequency measurements up to 20 kHz
The following specification are common to both Dash 8n and Dash 8u:
DIGITAL SIGNAL PROCESSING
Sample Rate 20 kHz
ADC Resolution 16-bit
Functions Filter, RMS, integration, differentiation
Filter Choices Low pass, high pass, notch, bandpass
EVENT INPUTS
Number of Inputs8 external event markers
Input Types
FRONT PANEL DISPLAY
Type Active matrix color LCD
Viewing Area 10.4 inch (diagonal), resolution: 640x480

CHART RECORDER

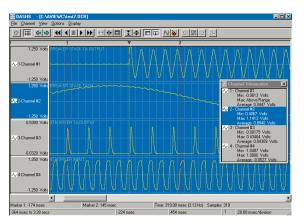
Recording method Direct thermal	
Chart Size	
Z-fold, 300 sheets, 137.5 ft.	
Resolution	
10 dpm time axis	
Chart Speed 1 mm/hr to 100 mm/sec; ± 2% accuracy	
Time marking	t
edge. Selectable time mark reference	•
(0.02 to 1 sec or external)	
Annotation	
date, speed); Each grid has one line of	
text (128 ASCII characters); An on-demand	I
text buffer available (128 characters)	
Data Logger Numerical printout up to 2 lines/second	
DATA CAPTURE	
Sample Rate 0.2 Hz to 20 kHz per channel	
Disk Capacity	
Time Stamp	a
Trigger Point Location Pre and post-trigger percentage adjustabl	
Auto Arm Allows automatic stacking of captures	iC.
TRIGGER ACQUISITION SOURCES	
Window All active waveform channels simultaneousl	k,
Logic AND/OR combinations	LY
Special	
Event Binary combination of active event state	۵c
Clock	
Other Sources Both manual and hard-wire trigger input	ts
RECORD REVIEW	
Formats Strip chart, numeric tabular, XY plot	
Display Preview with cursor measurement	
Chart	
POWER	
Input Voltage	t)
Power Consumption 100 watts typical, 200 watts maximum	-)
PHYSICAL	
Case Material Aluminum	
Dimensions	
x 5.2" (13.2cm) H	
Weight	
ENVIRONMENTAL	
Operating Temperature 5 to 40 degrees C	
Non-Operating Temperature15 to 60 degrees C	
Operating Humidity 10% to 95%, non-condensing	
MISCELLANEOUS	
ZIP Drive	
Utility Port	
trigger and events	,
Controls	
encoder wheel	
Built-in Help/Reports General, system status, chart information	n
-	

SETUP AND REVIEW SOFTWARE

ASTROVIEW C REVIEW AND ANALYSIS SOFTWARE

AstroVIEW C, the Windows-based data review software for the Dash 8 series, makes it easier than ever to review and analyze your data. From viewing data on your PC monitor to importing data into your data analysis program, AstroVIEW does it all. AstroVIEW C is designed for Windows® 95/98/ME and Windows NT/2000.

AstroVIEW is simple enough for anyone to use but powerful enough to handle however much data you give it. For troubleshooting or trending applications, it lets you review an entire record - minutes, days, or even weeks of data – on a single screen. And for even more detail, simply click on important data and perform a time or amplitude zoom in seconds. AstroVIEW also offers built-in analysis functions such as Fast Fourier Transforms, RMS conversion, and lowpass filtering.



After capturing data and reviewing it in AstroVIEW C, built-in

conversion routines allow you to convert Dash 8 series data to popular spreadsheet formats such as Excel,[®] Lotus[®] 1-2-3, DADiSP[™] and MathCad.[™] It has never been easier to get data from your recorder to your spread-sheet or analysis program.

	Attenuator	Range	Offset	User units	Filter/DSP	Ground
Channel 1	5V 💌	5	2.5	PSI	Lowpass	L
Channel 2	50 V 💌	24	0	Volts	Lowpass	
Channel 3	500 mV 💌	0.1	0.05	Volts	Bandpass	Γ
Channel 4	50 V 💌	12	0	RPM .	Highpass	v
Channel 5	50 V 💌	24	12	Amps	Integration	ন
Channel 6	500 mV 💌	0.5	0.25	Ft lbs	d/dt	
Channel 7	500 mV 💌	0.05	0.005	Watts	Notch 60 Hz	
Channel 8	500∀ ▼	240	120	Volts	RMS	T
Master Chanr	el: None					

ASTROSET SETUP SOFTWARE

Are you more comfortable in a PC environment? If you are, then you will truly appreciate our Windows-based AstroSET offline setup program. With AstroSET, all Dash 8 series setup is done on your PC, with the familiar Windows graphical interface that you are used to. You can set analog gains, speeds, capture settings – virtually every recorder setup that you want. When your setup is complete, simply download it to the Dash 8 series via the Ethernet interface. For remote applications, copy your setup to Zip disk and load it in the Dash 8 series in the field – it's that easy!

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Astro-Med is system certified to ISO9001.

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