

Data Acquisition

When and where you need it!

Compact, Lightweight, and **Powerful...**



DASH MX

Portable Data Acquisition Recorder

- ▶ **8 –16 Channels**
- ▶ **Sample rates up to 1 MHz**
- ▶ **Dedicated 160 GByte Data Capture hard drive**
- ▶ **12" color touch screen user interface**
- ▶ **Weight: 20 pounds**
- ▶ **Signal Input Modules include:**
 - Standard Voltage module—measures up to 250 VRMS
 - High Voltage module—measures up to 1000 VRMS
 - Thermocouple module
 - DC Bridge module
 - ICP/IEPE sensor module



At a price you won't believe!

Call or email Astro-Med, Inc. for full details

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West Warwick, RI 02893

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 **Astro-Med, Inc.**
TEST & MEASUREMENT PRODUCT GROUP
www.astro-med.com

DASH MX SYSTEM SPECIFICATIONS

Maximum Analog Modules	4
Event Inputs (TTL)	8
IRIG Time Codes	A, B, & E (standard)
Derived Channels	+, -, x, ÷, √, Exponential, Sin, Cos, Tan, Absolute Value, Integration, Differentiation

DATA ACQUISITION RECORDING

Operational Modes	Scope, Review, Real-time
Recording Method	Internal 160 GByte Disk Drive
Sample Rates	200,000 samples/second/channel 1,000,000 samples/second/channel with Universal Module
Time Stamp	Time and date automatically saved with data
Trigger Point	Amount of pre and post trigger is user adjustable
Auto Re-arm	Allows automatic stacking of captures
Filtering	Low pass, high pass, band pass, band stop, RMS

COLOR DISPLAY

Type	Active matrix color LCD (TFT)
Viewing Area	12.1" (30.73 cm) diagonal
Resolution	1024 x 768
Touch	Full screen, resistive

COMPLIANCE/ENVIRONMENTAL

Operating Temp	32 to 104 °F (0 to 40 °C)
Operating Humidity	10 % to 90 % non condensing
Shock	MIL-STD-810F Method 516.5, Procedure I
Vibration	MIL-STD-810F Method 514.5, Procedure I

PHYSICAL

Enclosure	ABS Plastic with armored end caps
Dimensions	13.3" (33.78 cm) x 12" (30.48 cm) x 5.3" (13.46 cm)
Weight (with 4 modules)	20 lbs (9.1 kg)

INTERFACE

Ethernet	1000BaseT
VGA	For displaying data on an external monitor
USB 2.0 (4 ports/unit)	For external peripherals and file export

SYSTEM POWER

Input Voltage Range	100 to 264 VAC or 24 VDC
Frequency Range	47 Hz to 63 Hz
Battery	Internal rechargeable battery (30 minutes of operation.)

BASE SYSTEMS

DASH MX

Eight channel system with isolated voltage input amplifiers (includes four MX-1 modules)

DASH MX-H

Eight channel system with isolated high voltage input amplifiers (includes four MX-2 modules)

DASH MX OPTIONAL MODULES (may be ordered in addition to the modules in the base systems)

MX-1 - ISOLATED VOLTAGE MODULE

Channels (per module)	2
Bandwidth	40 kHz
Isolation	250 VRMS or DC, Cat II
Input Type	Isolated, DC coupled
Specified Ranges	1 VFS to 800 VFS

MX-2 - ISOLATED HIGH VOLTAGE MODULE

Channels (per module)	2
Bandwidth	40 kHz
Isolation	1000 VRMS or DC, Cat III
Specified Ranges	20 VFS to 2000 VFS

MX-3 - NON-ISOLATED DIFFERENTIAL VOLTAGE MODULE

Channels (per module)	4
Bandwidth	40 kHz
Specified Ranges	80 mVFS to 100 VFS

MX-4 - UNIVERSAL INPUT MODULE

Channels (per module)	1 (Isolated Single Ended Voltage, Differential Voltage/Bridge, Thermocouple/RTD)
Isolation	250 VRMS or DC, Cat II
Input Range	50 mV to 250 VRMS (Isolated, Single Ended) 20 mV to 2 VFS (Non-isolated, differential)
Thermocouple Types	J, K, E, T, N, B, R, S
RTD	Pt 100

MX-5 - ISOLATED BRIDGE MODULE

Channels (per module)	2
Bandwidth	40 kHz
Specified Ranges	5 mVFS to 4 VFS
Isolation	250 VRMS or DC, Cat II
Excitation	Voltage- up to 10 VDC Current- up to 100 mA

MX-6 - ISOLATED THERMOCOUPLE MODULE

Channels (per module)	4- including 3 Thermocouple channels and 1 RTD channel
Connection Type	Thermocouple- Type U miniature (3 connectors) RTD- 4-wire screw terminal
Isolation	250 VRMS or DC, Cat II
Thermocouple Types	J, K, E, T, N, B, R, S
RTD Type	Pt 100

MX-7 - ISOLATED PIEZOELECTRIC SENSOR MODULE

Channels (per module)	2
Bandwidth	30 kHz
Input Type	Isolated Differential
TEDS Capable	Yes
Isolation	250 VRMS or DC, Cat II

PLEASE VISIT

www.astro-med.com

OR CALL US AT

401-828-4000

CONTACT INFORMATION

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