

# BATTERY CONDITIONER

# MD8250

The MARINE DATA MD8250 is a fully programmable battery testing and conditioning unit for maintaining mission-critical, heavy-duty batteries. It is programmed with the *Windows*®-based software *BattWin*™ or by using the touch pad and rotary selector switch.

The MD8250 may be used as a standalone unit or in a bank of up to 24 units for servicing large numbers of batteries. A bank of MD8250s may be controlled centrally from a PC with *BattWin*™ software and remotely monitored across a network.

The MD8250 is suitable for both sealed lead acid batteries and nickel metal hydride (NiMH) batteries in capacities from 30Ah to 100Ah.

Batteries are assessed and returned to their full operational capacity through a series of rigorous charging and discharging programs. *BattWin*™ software can load and save these programs as custom conditioning profiles for using with a specific type of battery.

*BattWin*™ records the battery assessment statistics and can print a certification label with barcode for each battery.

Conditioned batteries are finished in a fully charged state with a certified usable capacity rating (Ah). Battery performance is logged to allow early detection of potential battery failure.

The MD8250 has an easy to use interface and is supplied with rugged battery connectors for ultimate reliability.

The MD8250 Battery Conditioner from Marine Data.



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# SPECIFICATIONS

## Physical

Weight: 4.2Kg

Dimensions: 122mm overall width; 460mm overall length; 200mm overall height

Mounting: Wall mounted or benchtop free-standing

Connections: External connectors for:

Mains power supply (IEC 3 pin)

Battery DC connections and battery thermal detector (Walther *Procon*™ series, 10 pin)

Construction: Aluminium alloy enclosure

Finish: To customer's requirement

## Electrical

Power Supply: AC 230V nominal, 50Hz

Discharge current: 3-24A nominal @ 12V (in 3A steps) through a dummy load

Charge current: 5-20A; adjustable in 1A steps

Charge voltage: 15.0V DC maximum; adjustable in 0.1V steps

Charge Voltage Compensation: 0-10mV per cell per Centigrade degree

## Operational

Battery type: Lead-Acid 6 cell, 12V nominal; NiMH 10 cell, 12V nominal

Battery Capacity 30-100Ah nominal

Cooling: Air cooled; two 72mm fans

Display: LCD on unit; PC software

Configuration software: MARINE DATA *BattWin*™

Multiple use: Up to 3 banks of 8 units (up to 24 total); software configured; one bank of 8 units on each COM port

Protected against incorrect connection and thermal overload

## Environmental

IP rating: IP20

Operating temperature: +5°C to +50°C

## Additional Information

The finish can be made to individual requirements.

The MD8250 with *BattWin*™ is suitable for using with a touch-screen graphics display.

## Minimum PC specification for *BattWin*™ software:

PC with 1Ghz processor

Microsoft® Windows® operating system (Windows 98, Windows 2000 or Windows XP Pro)

A minimum of 512MB of RAM

Graphics card supporting a resolution of at least 1024x768

1 x USB port for running up to 1 Bank of 8 battery conditioners or upto..

3 x USB ports to run 3 Banks of 8 conditioners totalling 24 Conditioners

At least 1 x USB port is required for running one battery conditioner

1 x USB port for Human Interface Pointing Device (Mouse)

1 x USB port for Human Interface (Keyboard)

1 x Serial or USB port to accept Touch Screen Monitor (see below)

1 x USB port or Centronics Parallel Printer port for label printer

Wireless or Ethernet LAN port if remote monitoring is required

10GB of free hard disk Space

15" or 17" Flat LCD Touch Screen Monitor Running 1024 by 768 Pixels

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MARINE DATA, Vittlefields Technology Centre, Forest Road, NEWPORT, Isle of Wight, PO30 4LY, United Kingdom  
tel: +44(0)1983 822180 fax: +44 (0)1983 822181 email: sales@marine-data.co.uk web: www.marine-data.co.uk

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