

DMA35-DLV50-BATT Data Logging Hydrometer & Voltmeter Battery Test Package

Analyze test data onsite...

Step 1: Quickly Record and Analyze DC Cell Voltages

- Measure, store and view voltages in less than 1 second
- Perform accurate charge/discharge tests on up to 256 cells in real time (see the DLV50 brochure for details)
- Immediate audio and visual out of tolerance indication
- Statistical analysis (sum, avg, max/min with cell number)
- Graphical analysis (color-coded bar graphs)
- Date and time stamping of last reading



Measuring DC cell voltages, specific gravity and electrolyte temperature has always been a time consuming, inefficient task requiring two technicians: one to take the readings, the other to write down the data.

The DMA35-DLV50-BATT battery test package is a compact yet powerful battery testing tool. It allows the user to not only quickly and accurately acquire critical test data but allows for immediate analysis (threshold, statistical and graphical) while still in the battery room.

This data can then be downloaded via a USB Plug 'n' Play connection and further analyzed with the Winmeter 5.1 Battery Analysis Software, enabling the user to quickly identify batteries that are likely to require preventative maintenance.

Step 2: Record Cell SG & Temperature Measurements

- Quickly and accurately take up to 256 readings of SG and temperature
- SG readings automatically compensated for temperature



Step 3: Quickly Upload and Analyse DMA35 Digital Data

- Upload DMA35 data directly to DLV50 via IRDA
- Immediate color-coded out of tolerance indication
- Statistical analysis (avg, max/min with cell number)
- Graphical analysis (bar graphs SG and Temp.)
- Date and time stamping of uploaded data



Step 4: Transfer Data to Winmeter 5.1 Battery Analysis Software

- Connect DLV50 to PC (via USB) for automatic syncing of all data, test thresholds & date/time.
- Use Winmeter 5.1 battery analysis software to generate/save battery test reports
- Optional transfer of all or selected data files via USB flash drive in .bdf format



Winmeter 5.1 Screenshots

- Automatic syncing of all data & thresholds via USB

- Battery test report editing, generation and database mangement

- Full report generation (tabular and graphical analysis)

- One-click exporting to Excel and pdf format



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Accessories



- Winmeter 5.1 Battery Analysis Software (Included)**
- Compatible with all ETG battery test instruments
 - USB Plug 'n' Play and legacy RS232 PC interface
 - Statistical and graphic analysis & report generation
 - Searchable battery test database



- Custom Hard Case (Included)**
- Compatible with DMA35, DMA35 Module, DLV30 & DLV50
 - Space for all accessories
 - Acid Resistant



- Voltage test Leads (Included)**
- Compatible with DLV30 & DLV50
 - Needle sharp points
 - Flexible high quality leads for ease of use



- NIST Calibration Certificates (Included)**
- National Institute of Standards & Testing calibration certificates
 - Test data included as standard
 - Yearly calibration available at minimal cost



- All Cables and Connectors (Included)**
- Mini USB cable (PC/Winmeter 5.1 interface & internal battery charging (slow charge))
 - AC/DC Power supply & 2.5mm charging cable (fast charge)



- Custom Soft Case (Optional)**
- Compatible with DLV30 & DLV50
 - Space for all accessories
 - Acid Resistant

Specifications

DMA35 Digital Hydrometer

Physical

Dimensions	L 5.5" x W 5.1" x D 1.0"
Weight	10 ounces
Keypad	7 key membrane (tactile)

Measurement

SG range	0 to 1.999 SGU
SG Temp. Compensation	77/77(°F)
SG Accuracy	+/- 0.001 SGU
SG Repeatability	0.0005 SGU
Temperature Range	32 to 104 °F
Temperature Accuracy	0.4 °F
Temperature Repeatability	0.1 °F

Memory

SG & Temp. Capacity:	1 string of 1024* readings
Data Retention:	10+ years
*Only first 256 readings can be transferred to DLV50	

Communication

DLV50/DMA35 Module	IRDA Obex
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Battery

Type	(2) AA Alkaline
Battery Life	6 months(Approx.)
Auto-off	3 min with no activity

Warranty

1 year limited warranty

DLV50 Data Logging Voltmeter Plus

Physical

Dimensions	L 6.3" x W 3" x D 1.3"
Weight	10.5 ounces
Keypad	5 key membrane tactile

Display

Type	OLED 256K Color
Viewing Area	35mm by 28mm
Resolution	160 by 128 pixels

Memory

Internal:	512K EEPROM
Float Voltage Capacity:	8 by 256 & 20 by 48
Discharge Voltage Capacity:	11 by 256 (time-stamped)
SG & Temp. Capacity:	8 by 256
Data Retention:	10+ years

Real Time Clock

Precision	+/- 3 sec per month
Calendar	100 year w/ leap year

Communication

DMA35 Hydrometer	IRDA Obex
Optional Printer	IRDA Raw
USB Flash Drive	USB Host mode
PC/Winmeter 5.0	USB Device mode

Battery

Type	Rechargeable 3.7V Li Ion
Battery Life	20 hours (Approx.)
Auto-off	3 min with no activity



Environmental

Temperature Range (Operating)	0C-40C (32F-104F)
Temperature Range (Storage)	-10C-60C (20F-140F)
Humidity Range (0C-31C)	0% to 80% (non-condensing)
Humidity Range (32C-40C)	0% to 50% (non-condensing)
Altitude	0-2000m above sea level

Electrical Specifications

Input	DC Resolution	VDC Accuracy
0-4V	1mV	+/-5mV
4-20V	1mV	+/-10mV

Warranty

1 year limited warranty



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