GRAPHTEC

DATALOGGER & DATA PLATFORM

PRODUCT GUIDE

Portable and Versatile Dataloggers for General Purpose Data Acquisition

Compact Datalogger GL100
midi Logger GL240
midi Logger GL840
Hi-Speed/Hi-Voltage Datalogger GL980
Hi-Speed/Hi-Voltage Datalogger GL2000
Data Acquisition Data Platform GL7000

https://www.logicbus.com/Graphtec-America-Inc_bymfg_146-7-1.html
**Features & Benefits**

- 4.3” TFT color LCD (WVGA)
- Built-in web/FTP interface
- Windows APS software included
- 10 isolated channels
- Linear scaling capabilities for each channel
- Maximum sampling rate up to 10 ms (100ms for 10 channels)
- Extended memory capacity using SD card (32GB SDHC max)
- WLAN (option) capable for remote monitoring
- Combine GL100 and GL240 using WLAN
- 4-20mA inputs using B-551 shunt resistor (250 channels)

**Multifunction analog inputs**
- Voltage: 20 mV to 100 V
- Temp.: TC, R, S, B, K, E, J, N, W (WRe6-23)
- Humidity: 0-100% (the B-500 option is required)

**Pulse/Logic inputs**
- Pulse: 4ch (Accumulating, Instant, or Rotation)
- Logic: 4ch

**Compact LOGGER GL100**

- Supports a wide array of measurements with swappable sensors/modules
- Connect to a PC or smart device via wireless LAN
- Powered by Alkaline AA batteries

**Feature & Benefits**

- Wireless Datalogging
- Up to 10 GL100 can be viewed on the software APS via USB or WLAN
- Swappable sensors and modules
- Real time APS software included
- Apps available on iOS and AndroidOS platforms

**GS Sensors**

Also includes extension cable (GS-EXC) and dual port adapter (GS-DPA) capability. Compatible with GL100 and GL840 series
**High Voltage/High Speed Datalogger**

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### midi LOGGER HV GL2000

- **All Channel Isolated: 4 ch**
- **CAT III 600V:**
- **Multi function:**
- **Shuntless sensing:**
- **Built-in RAM:**
- **Built-in Flash Memory:**
- **SD Card:**

#### Features & Benefits
- 4ch High speed 1MS/s Max. simultaneous sampling
- CAT III 600 V compatible
- Measure up to 600VDC and AC True RMS Measurement
- 7.0" TFT color LCD (WVGA)
- Isolated BNC inputs and M3 screws for T/C
- Linear scaling for physical measurement sensors
- 4ch digital inputs for flow, RPM, and digital totalization measurement for pulse-based meters

#### Applications
- Discontinuity testing
- CAT III-rated voltage monitoring
- Dynamic signal testing
- Inrush current monitoring
- Motor performance measurement
- Electrical panel measurement

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### midi LOGGER GL980

- **All Channel Isolated: 8 ch**
- **USB Memory:**
- **Multi function:**
- **Shuntless sensing:**
- **Built-in RAM:**
- **Built-in Flash Memory:**
- **SD Card:**

#### Features & Benefits
- 8ch High speed simultaneous sampling
- Includes 500 V measurement with 16-bit A/D converter
- Equipped with true-RMS measurement
- Large built-in RAM (4 MS/ch) and built-in Flash memory (4 GB)
- Large easy-to-read 7-inch LCD
- Isolated BNC inputs and M3 screws for T/C
- 4ch digital inputs for flow, RPM, and digital totalization measurement for pulse-based meters

#### Applications
- Discontinuity testing
- Voltage fluctuations
- Dynamic signal recording
- Chart recorder replacement
- Torque and RPM monitoring
- Inrush current monitoring
- Additional temp/humidity monitoring

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### Options and Accessories

<table>
<thead>
<tr>
<th>Model</th>
<th>Item</th>
<th>GL240</th>
<th>GL840 series</th>
<th>GL900 series</th>
<th>GL7000 series</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-513</td>
<td>Input/Output cable for GL series</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>B-514</td>
<td>DC drive cable</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>N/A</td>
</tr>
<tr>
<td>B-520</td>
<td>Humidity sensor</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>B-564</td>
<td>Input terminal (M type)</td>
<td>N/A</td>
<td>Yes</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>B-565</td>
<td>Input terminal (WV type)</td>
<td>N/A</td>
<td>Yes</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>B-566</td>
<td>Base of Input terminal</td>
<td>N/A</td>
<td>Yes</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>B-567-05-20</td>
<td>Connection cable</td>
<td>Yes</td>
<td>Yes</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>B-568</td>
<td>Wireless LAN unit</td>
<td>Yes</td>
<td>Yes</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>B-569</td>
<td>Battery pack</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>N/A</td>
</tr>
<tr>
<td>ACADEP-20</td>
<td>AC power adapter</td>
<td>Yes</td>
<td>Yes</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>ACADEP-60</td>
<td>AC power adapter</td>
<td>Yes</td>
<td>N/A</td>
<td>Yes</td>
<td>N/A</td>
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<tr>
<td>RIC-10</td>
<td>Probe set for Logic input</td>
<td>N/A</td>
<td>N/A</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>RIC-142</td>
<td>Input cable, BNC - BNC</td>
<td>N/A</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>RIC-143</td>
<td>Input cable, Banana - BNC</td>
<td>N/A</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>RIC-144</td>
<td>Clip, Alligator (small size) for RIC-143,147</td>
<td>N/A</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>RIC-145</td>
<td>Clip, Alligator (middle size) for RIC-143,147</td>
<td>N/A</td>
<td>Yes</td>
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<td>Yes</td>
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<tr>
<td>RIC-146</td>
<td>Clip, Grubber for RIC-143,147</td>
<td>N/A</td>
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<td>Yes</td>
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<tr>
<td>RIC-147</td>
<td>Input cable, Banana - BNC (high voltage)</td>
<td>N/A</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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- **B-513**  Input / Output cable
- **B-514**  DC drive cable
- **B-530**  Humidity sensor
- **B-564**  Input terminal (M type)
- **B-566**  Input terminal (WV type)
- **B-567-05-20**  Connection cable
- **B-568**  Wireless LAN unit
- **B-569**  Battery pack
- **ACADEP-20**  AC power adapter

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- **B-569**  Battery pack
- **ACADEP-20**  AC power adapter
**Data Acquisition | Datalogger | Recorder**

**Modular Type Data Acquisition Unit**

**DATA PLATFORM GL7000**

- GL-Connection PC software included. Command API also available and compatible with other GL dataloggers
- Optional touch panel display (GL7-DISP)
- Hi-speed 1MS/s
- Multi-channels max.112ch
- High voltage 1000 V
- Large Memory Capacity 128GB SSD

*Up to 10 modules can be connected to one main unit. Unit above shows five modules and touch panel display.*

- **Voltage Module**
  - GL7-V

- **Voltage/Temperature Module**
  - GL7-M

- **High speed Voltage Module**
  - GL7-HSV

- **High Voltage Module**
  - GL7-HV

- **DC Strain Module**
  - GL7-DCB

- **Touch Panel Display Module**
  - GL7-DISP

- **Charge Module**
  - GL7-CHA

- **Voltage Output Module**
  - GL7-DCO

- **Logic/Pulse Module**
  - GL7-UP

- **SSD Module**
  - GL7-SSD

**Features & Benefits**

- Standalone system with GL7-DISP optional display (5.7” TFT color LCD)
- Add-on modules for optional expansion
- Analog Low Pass Filter (Anti-Aliasing) for noise cancellation
- Linear scaling mechanisms for various sensor signals for each isolated input channels
- Includes Strain Gauge and Accelerometer modules (GL7-DCB and GL7-CHA)
- Enhanced memory capability for extended recording on four different memory medium (internal RAM, internal Flash, SDHC, and SSD modules)
- Compatible software usage with our other portable GL Datalogger instruments
- GL-Connection Software included with the purchase of the platform
- FFT Analysis, X-Y analysis, digital display, and waveform views
- Max. 10 modules per main GL7000 unit and sync capability among 5 main GL7000s (max 560 channels)

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**Applicable Markets**

- Aerospace and Automotive Components Manufacturing
- Manufacturing and R&D
- Construction & Building Maintenance
- Machinery and industrial Process Measurement
- Electrical equipment industry
- Transportation equipment industry (Rails)
- Energy (Electricity, Gas) and Utility Businesses
- High Precision/Semiconductor Equipment Development
- Academic and Research Communities

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