

# LG1200 Controller



## Overview

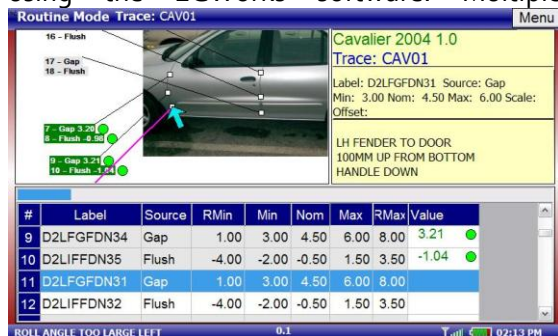
The compact, lightweight LG1200 controller can be used with all of the LaserGauge® controller-based sensors, including the HS305, HS306, HS410 models, and it can also be used with the USB and DSP sensors including the HS701, HS710 and HS720 models.

The controller has a high resolution display, and has both a touch screen and a keypad with joystick for alternative methods of interface. Communications can be handled through the USB ports, Ethernet port or wirelessly.



## Operating Features

**Routine Mode** – Routine mode allows the user to run inspection routines developed using the LGWorks software. Multiple



routines can be stored on the controller and automatically opened with the entry of an associated VIN, trace number or other identifier. Graphical and text instructions guide the operator to the proper measurement locations. Color-coded results and audible tones alert the operator to out-of-spec conditions.

**Algorithm Mode** – The LG1200 controller supports all LaserGauge® measurement and analysis algorithms including virtual gauges, LGBasic algorithms, part setups and match-to-CAD. Scans are saved for each measurement taken and can be reviewed by simply selecting the data row. Algorithm settings can be modified and rerun against all scans in the data table to evaluate the impact of the change.



**User Interface** – An 800 x 480 graphical display with a touch screen provides a quick and easy way to navigate menus and select options. The keypad and joy stick also provide full selection functionality for environments not suited to touch screen use. Menus are organized in a flat tab format so that selections can be made quickly. Four keys on the front panel can be programmed by the user as shortcuts to the most often used functions. Screen layouts can be configured according to the user's preference.

**Communications** – Files can be sent to and retrieved from the controller utilizing a USB port or through a wired or wireless Ethernet connection. The controller comes network capable but can be operated without wireless

functions enabled. Wireless ZigBee and RF options are also available.

**Battery Powered** – A rechargeable lithium-ion battery provides power for approximately four hours of continuous operation. An on-screen fuel gauge shows the charge remaining in the battery. An



external charger can be used to recharge the battery or AC power can be connected to the controller and the battery recharged while the controller is in use. The AC adapter is rated for worldwide use.

**Automatic Data Saving** – Whether in Routine mode or Algorithm mode, data and scans can automatically be saved. If the battery is removed or the power runs out, the data will not be lost. Profiles for every measurement are temporarily saved and are available for review by merely clicking on the measurement row.

**Advantages**

**Portable** – A complete system: controller, battery and sensor, weighs just over four pounds and is carried comfortably in a nylon bag with a padded shoulder strap.

**Versatile** – Firmware language can be changed through the menus. Measurements and settings can be expressed in millimeters or inches. The power supply can be used worldwide to run the controller and to charge the battery.

**Advanced Features** – High contrast scanning is available for use on dissimilar surface colors. The optional barcode reader on the HS306 sensor can be used to input trace numbers and other variable data to be included in output files.



**Controller Specifications**

Operating Modes	Algorithm Only or Algorithm and Routine
Housing	Cast urethane case with reinforced mounts
Size	7.2" (w) x 7.8" (d) x 4.0" (h)
Weight	3.0 lbs without battery
Processor	500 MHz Pentium compatible
Memory	128 Mbytes of data/scans/routines
Sample Rate	Up to 10 processed samples per second for many applications
Display	800(H) x 480(V) x 256 colors
User Interface	15 multi-function buttons, 5-way joy stick
Other Interface(s)	2 USB 2.0 ports, Ethernet port, video out
Power Requirements	12 VDC @ <2.5 Amps
Power Supply	Worldwide 60W A/C adapter, (optional 12V rechargeable battery)
Environment	0° – 70° C
PC Software Interface	LGWorks, Windows™ 2000/XP compatible. Requires 64MB RAM, 16MB disk space



ASI DATAMYTE, Inc.  
 info@asidatamYTE.com  
 www.asidatamYTE.com  
 Copyright © A2331EN-0810