



A **VANTAGE** Company

# **GALaxy<sup>e</sup>Hydro** Controller



# **GALaxy<sup>e</sup>Hydro**

# Easier to wire. Economical to install. Essential to use.



*GALaxy<sup>e</sup>Hydro reduces the number of wires needed for connection, and its streamlined design makes routing far simpler.*



## Our GALaxy<sup>e</sup>Hydro Controller makes wiring much easier to perform.

Ask any mechanic what they're looking for in a Hydraulic Controller and you'll get plenty of suggestions. But at the top of their list will be a demand for a system that makes wiring simpler, faster, and reduces the chance for connection error. Fortunately, that is just what our **GALaxy<sup>e</sup>Hydro Controller** provides to professionals.

## A streamlined design that makes installation far more economical.

**GALaxy<sup>e</sup>Hydro** features a streamlined layout that removes wiring obstructions, reduces the total number of wires needed for connection, and uses coded boards to make wiring sequential and practically foolproof to perform.

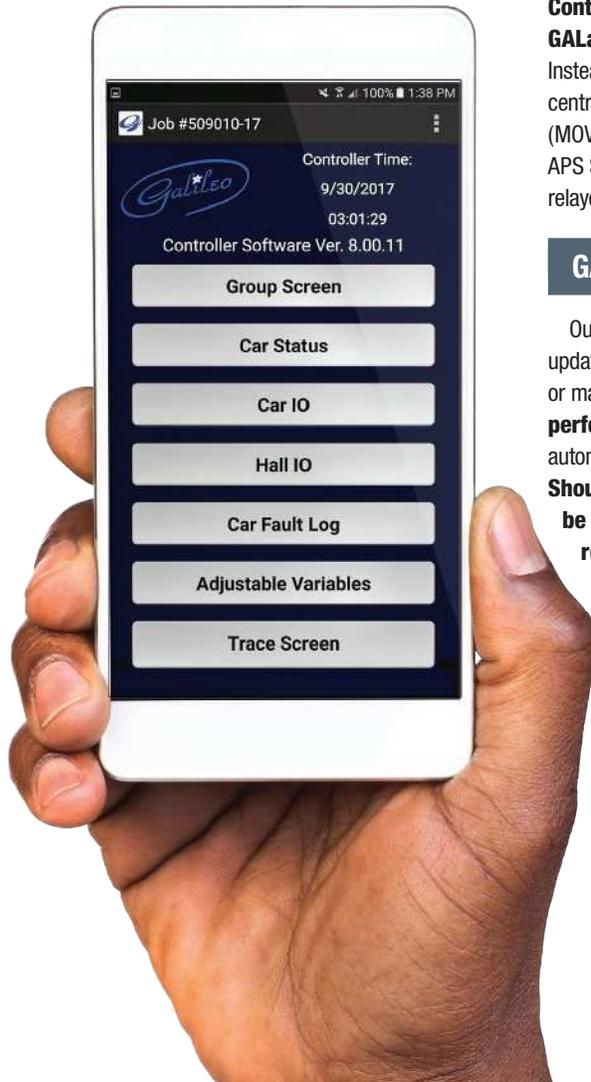
To speed repair, **GALaxy<sup>e</sup>Hydro** is composed of small input modules instead of long, bulky PC boards. **<sup>e</sup>Hydro uses both serial communications and a universal connector, so you can use any car or hall fixture with only minimal wiring.**

## A secure, built-in Wi-Fi link.

When it comes to head-scratching situations there are few places that offer more opportunities than within an elevator hoistway. Particularly when you find yourself trying to troubleshoot an on-site problem. **Fortunately, <sup>e</sup>Hydro provides a secure, built-in Wi-Fi connection that permits you to obtain the answers you need through your smartphone, laptop or tablet with our <sup>e</sup>Hydro App. No Internet connection is required.**

## The <sup>e</sup>Hydro App helps you troubleshoot problems efficiently.

With our **<sup>e</sup>Hydro App** you can use your own mobile device from inside the Machine Room to adjust system variables, check car status, review fault logs, examine car and hall input/outputs, and examine group and trace screens. The App offers an easy-to-use, intuitive, graphical interface, making diagnostics much more efficient and less time-consuming to perform. **<sup>e</sup>Hydro is available free from Google Play™ and the Apple App Store<sup>SM</sup>.**



*<sup>e</sup>Hydro provides a LCD Display Interface (no service tool is required) and utilizes replaceable, plug-in control outputs protected from short circuits.*

## Streamlined functionality... with a simple modular design.

The system's use of serial communications to the car reduces traveler wire counts (**only 11-18 AWG Control wires**) and simplifies field connection. **With GALaxy<sup>e</sup>Hydro a Car Top Interface is optional.** Instead the COP (Car Operating Panel) serves as the central hub for gathering data from the Door Opener (MOVFR or MOVFE) or CAN (Controller Area Network), APS System, and Inspection Station, which is then relayed back to **<sup>e</sup>Hydro**.

## GALaxy<sup>e</sup>Hydro upgrades easily.

Our Controller permits fast and easy software updates in the field. Instead of disassembling boards or manipulating chips, **system upgrades can be performed via SD flash card.** **GALaxy<sup>e</sup>Hydro** automatically stores job parameters and set-up data. **Should you require assistance, fault logs can be transmitted to GAL's Tech Support for review at no charge.**

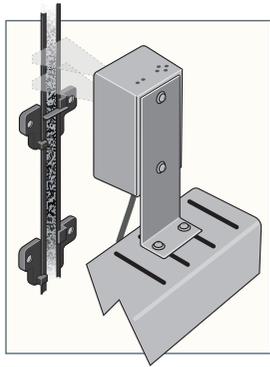
A single 32-Bit Dual Core CPU runs both the Car and Groups, and a LCD User Interface within the Controller makes it easy to review key data.

*The <sup>e</sup>Hydro App can be downloaded from :*



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App Store is a service mark of Apple Inc., registered in the U.S. and other countries.



APS sensor and Code Tape

## Plug and play APSS for real accuracy.

**GALaxy<sup>e</sup> Hydro** provides a true advancement in APSS (**Absolute Positioning Selector System**) accuracy through the use of a dual-camera sensor that can easily be positioned on the car crosshead (sensing guide rail mounted code tape), door operator or car door sill. The sensor scans a code tape using IR illumination. All key data is relayed to **eHydro**, which the Controller uses to calculate car velocity and the position.

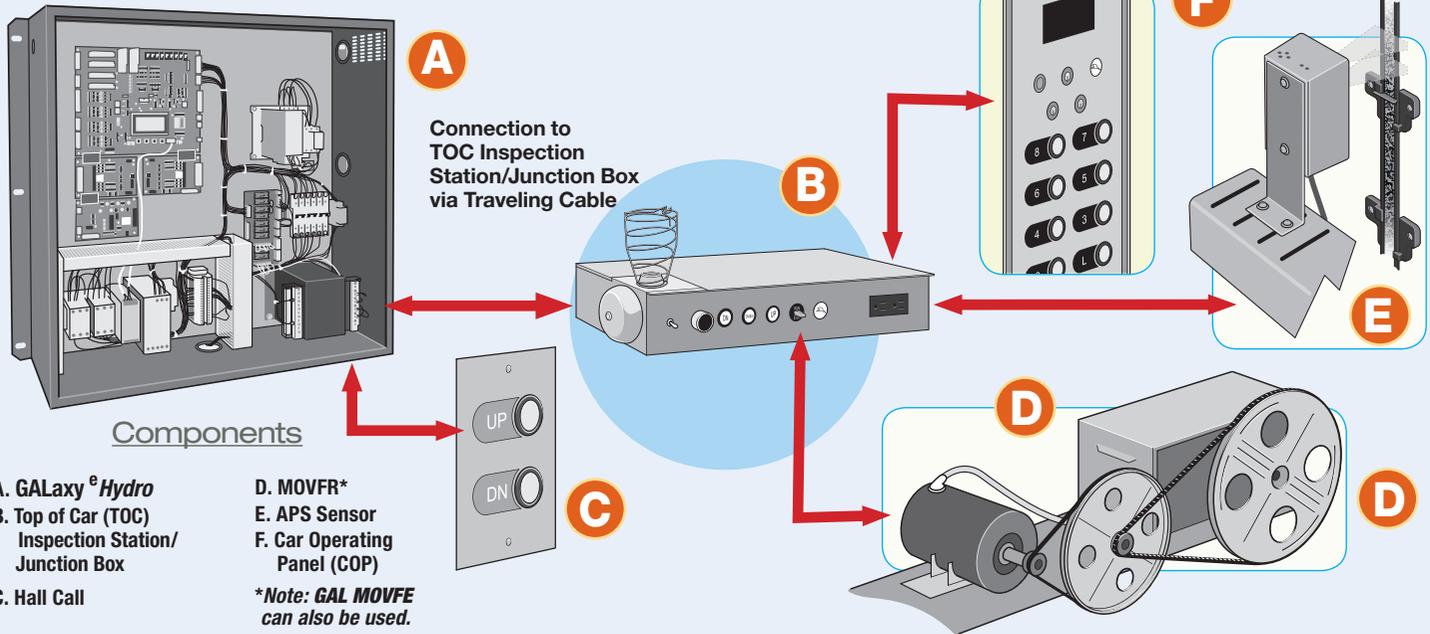
With this touch-less system — *which does not rely on magnets to determine position* — accuracy within 1/64 in.

(0.5 mm) is assured. The APS system is insensitive to dust and smoke, is SIL 3 certified, and pre-drilled holes are provided to make installation easy and quick.

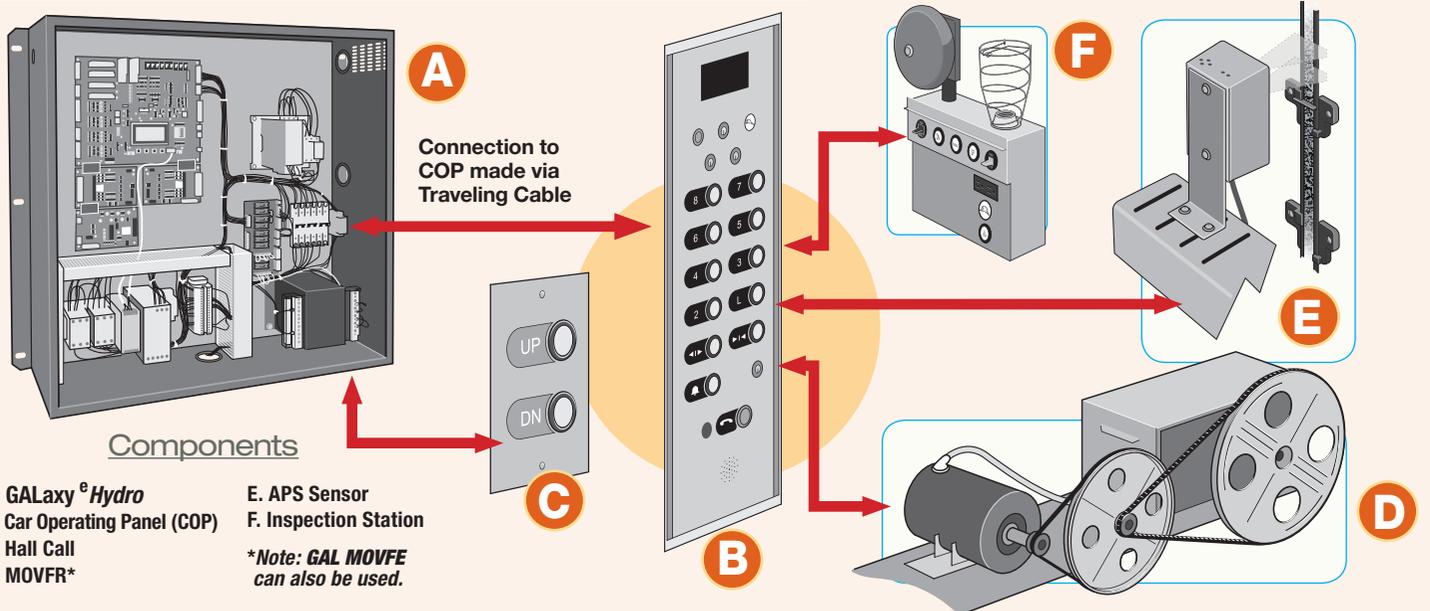
## <sup>e</sup>Hydro eliminates wiring headaches.

**GALaxy<sup>e</sup> Hydro** gives elevator professionals a Controller specifically designed for installations of up to six cars, eight floors, and is rated for speeds of up to 200 fpm. But best of all, **eHydro** delivers a durable, cost-effective choice that dramatically speeds up installation, and makes wiring far simpler to perform.

## GALaxy<sup>e</sup> Hydro System Wiring Overview: Method A



## GALaxy<sup>e</sup> Hydro System Wiring Overview: Method B



# A Hydraulic Controller that delivers true efficiency.

## GALaxy<sup>e</sup>Hydro System: Features and Options



# GALaxy<sup>e</sup>Hydro

### Features

- Designed to handle up to six cars per group.
- For low/mid-rise buildings up to eight floors.
- Requires fewer wires for connection.
- TOC Unit optional. Primary connection mode is Traveling Cable in swing return.
- Serial Link to Car, Hall Stations and Lanterns.
- APSS features plug-in camera reading Optical Tape 1/4 in. (0.5 mm accuracy).
- Manual set-up not required.
- Simple board design features coded inputs/outputs making wiring simple.
- Full-color Wiring Diagrams (per 8.6.1.2.2 On-Site Documentation) are easy to follow. "Quick Start" sheet is provided.

- Diagnostics are detailed on the Main I/O board through a LCD display and the <sup>e</sup>Hydro App (mobile device via Wi-Fi interface). LEDs are provided on the Controller input and output in the Machine Room and on the car.
- Free Tech Support.
- Software updates provided via SD Card.

### Options

- Battery Lowering
- Call Card Security (Key Switch and Card Reader)
- Hall Card Security
- Wi-Fi User Interface App
- Freight Door Interface
- Short Floors

## Ready-to-ship Signal Fixtures sold exclusively with <sup>e</sup>Hydro.



Conventional

GAL offers this solid family of four attractive, highly durable and reliable signal fixture styles sold exclusively with our GALaxy<sup>e</sup>Hydro Controller.

GALaxy<sup>e</sup>Hydro can be wired to work with any signal fixture you choose. However, dedicated, easy-to-order fixtures offer real benefits in time and cost savings during installation. Since they're already in stock and ready-to-ship they can be delivered onsite more quickly.



Architectural

These signal fixtures come prewired (which saves you more time and effort) and they're designed to provide plug-and-play ease of use. In addition to utility and speedy delivery they add a stylish look—but they're built to be tough as well.

If you're searching for an attractive blend of solid construction that can handle heavy punishment, and you really want to exploit all the advantages in economy that <sup>e</sup>Hydro provides, then look to these



Vandal-Proof

dedicated fixtures that are available exclusively when you purchase our <sup>e</sup>Hydro Controller.

**\*California Building Code Compliant Option Available:** GAL also provides a ready-to-ship pushbutton that meets CBC requirements. This option is available for California installations only. Please contact the GAL Sales Team for additional details.

# ScanGUARD®: The intelligent choice in Light Curtains.



The question then should be why would anyone want to spend more for a light curtain that offers far more than what they truly need? It's more than a practical consideration, let's not forget that complex, options-loaded systems offer more opportunities for breakdowns.

That's why we offer **ScanGUARD®**. It is a highly rugged, vandal-resistant, simple-to-use light curtain that can be installed very quickly. And it comes at an unbeatable price, which makes it the intelligent choice for professionals performing new installations or mod jobs.



*ScanGUARD® provides 63 non-parallel infrared beam paths with a range of 0-6 ft. (0-1.83 m).*

## With The Features You Need.

**ScanGUARD® connects directly to MOVFR and MOVFE Door Operators and works on side and center opening doors. It provides 63 non-parallel infrared beam paths, which function even in the most extreme sunlight conditions. ScanGUARD® offers a detection range of 0-6 ft. (0-1.83 m).**

Seven feet (2.14 m) long, this light curtain uses a 24 V DC power source and offers a slim 1.18 x 0.81 in. (30 x 20 mm) aluminum alloy profile.

**ScanGUARD®** comes complete with all mounting hardware, clips, cables (Super Flex),  $\frac{3}{64}$  in. (3.6 mm) drill bit, full instructions, and a 24-month factory warranty from GAL.

## ScanGUARD®: Features.

- **Durable/Proven Design. Vandal Resistant** — comes with **24-month factory warranty.**
- **Easy/Fast Installation: Connects directly to MOVFR and MOVFE Door Operators.**
- **63 Non-parallel beam paths (crossbeams) that function even in the most extreme sunlight conditions.**
- **Detection range: 0-6 ft. (0-1.83 m).**
- **Installs on Side and Center Door configurations.**
- **All Mounting Hardware provided. Comes with clips, non-proprietary cables (Super Flex),  $\frac{3}{64}$  in. (3.6 mm) drill bit, and full instructions.**
- **Tolerant of all environmental, electrical and radio interference.**
- **Power: 24 V DC.**
- **Economically priced. Excellent choice for new or modernization projects.**

No one has to be reminded of the immense passenger safety and systems benefits a light curtain provides. When the 'beams' are blocked it signals the Door Operator (or another interface) to adjust door mechanism speed and torque and provide both a physical and audible warning to passengers obstructing the doorway.

Over the years manufacturers have provided light curtain systems with a bewildering variety of features and this has greatly complicated the selection process. Once only basic factors such as functionality, product price and durability were the prime points of comparison for product selection.

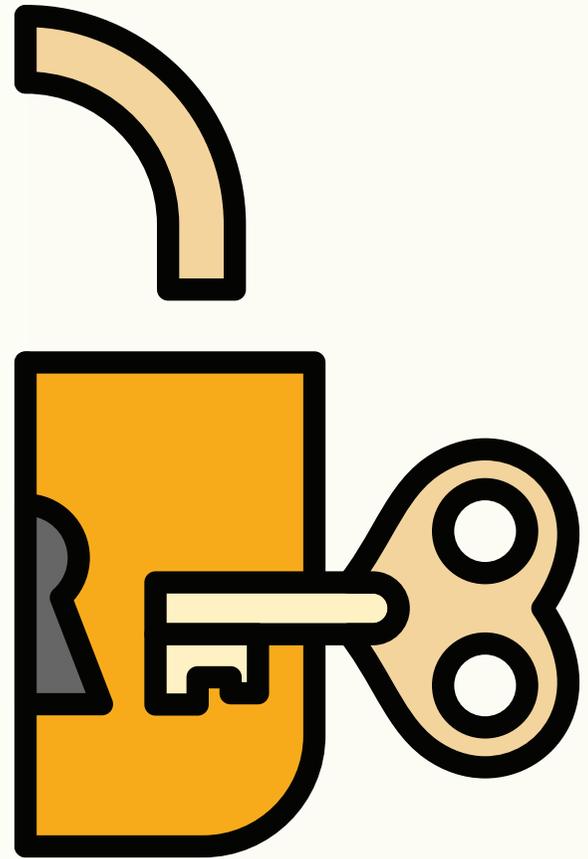
Today though one must also consider voltage requirements, the number of light beams, range of detection, or whether you require 2D, or 3D zone capabilities. And while advances in the field have led to more sophisticated feature-rich devices, their complex design has also made them harder to install, maintain, and in many cases less robust and able to stand up to current system realities.

## A Light Curtain That Offers You Economy and Simplicity.

Certainly, there's a need in our industry for hi-tech, feature-rich, light curtain systems. However, most installations simply require a durable light curtain that meets basic code requirements. One that offers good overall value, is efficient, and is both fast and easy to install.

**ScanGUARD®**  
The Intelligent Choice in Light Curtains





# Unlocking the full potential of **eHydro** with GAL **product training**

Does a change in Elevator Code leave you wondering if we could provide a solution? Or would you simply like more information on how to get the most from a GAL product? Whatever your question is, we're ready to help because **GAL provides tech support at no cost to customers.**

**This includes free phone support and training for maintenance organization, and on-line, web-based remote monitoring.**

**We also offer free monthly training courses in our Bronx, NY facility.** Our classes include reviews of GALaxy Controls, Door Equipment, and other products as well.

**Should you ever require specialized training regarding the GALaxy<sup>e</sup>Hydro please contact us, so we can provide assistance.**

## GAL Regional Service Centers

**Miami**  
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Miami Gardens, FL 33169  
877.241.9354

**Chicago**  
1930 East Devon Ave.  
Elk Grove Village, IL 60007  
877.300.5830

**Los Angeles**  
9704 Jordan Circle,  
Santa Fe Springs, CA 90670  
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