

# KEYTROLLER LCD-601

**COLOR WIRELESS ACCESS-MONITORING SYSTEM**  
(with impact / speed sensing)



## Features:

### KEYLESS KEYPAD IGNITION

Driver presses START to start vehicle, STOP to shut down. Capacitance keypad design for NO WEAR!

### AUTOMATION OF DAILY CHECKLIST

First start of shift requires operator to complete electronic checklist - programmable by machine or type, pre + post start items.

### CRITICAL ITEM SHUT DOWN

If an operator "FAILS" a critical (flagged) item in the checklist, device will require immediate supervisor interface.

### ACCOUNTABILITY

Abusive operators will have impact and speed infractions recorded, also has shut down programming.

### WIRELESS WIFI + CELLULAR OPTIONS

WiFi Standard - allows communication with wireless infrastructure for programming device and downloading event log data.

### SPEEDOMETER

Vehicles with speed sensor inputs will be able to view speed from color LCD display - set speed limit, alarm and log abuse.

### SEAT BELT USAGE

When enabled, device can monitor and ensure seat belt is buckled - programmable shut down.

### TRAINING

Warns driver on LCD when retraining is due - alerts in software.

### AUXILLIARY INPUT MONITORING

5 auxiliary inputs for monitoring engine, seat, seat belt, overload, etc.

### EXTERNAL ALARM

120db flashing siren alarm can sound after an impact or speeding through grace period.

### "WORK" TIME EVALUATION

Monitors loaded/unloaded and moving/idle time in % on LCD display from beginning of shift.

### "UTILIZATION" TIME EVALUATION

Monitors vehicle utilization % on LCD display from beginning of each shift via 2nd hour meter input.

### LOCK OUT - FOR SERVICING

Supervisors and mechanics can lock out driver operators until machine is again ready for service.

### TEXT MESSAGING

When wirelessly enabled, manager can text message individuals directly from host PC - driver makes simple reply.

### EMAIL

Management can choose logged items to send to multiple email addresses (like: hour meters, failed items, impacts, etc.).

### REPORTS + GRAPH GENERATION

All usage and driver events can be conveniently viewed using **INFORMATION** - client server software reports section.

### SMARTIE WIRELESS CAMERA OPTIONS

Provides video evidence of events leading up to and during an equipment accident - video can be sent wirelessly.

### SMARTIE VIDEOS ARE EVENT GENERATED AND CONTINUOUS

Allows supervisor to save abusive AVI video in driver's records. Can review continuous video for checklist accountability, etc.

### \* NO CHARGES FOR DATA OR REPORTS!

Both PC-based or web-based software! You own the software! You own the data. Software automatically generates most reports.

### \* FREE UPGRADES!

To both firmware and software for the life of the product. All upgrades easily done - wirelessly!

### \* DESIGNED TO FIT TO ANY MAKE OR MODEL FORKLIFT OR EQUIPMENT

KEYTROLLER is NOT affiliated with any OEM forklift brand. Maintains your purchasing flexibility - does NOT tie you into one brand!



## SMARTIE



The KEYTROLLER LCD 602 model is available with the same keypad design and functionality as our LCD 601 but with a simpler relay sensor module that has only one auxiliary input (typically seat switch or seat belt) and no impact or speed sensing. The lower cost LCD 602 is commonly used on equipment like ground support, cranes and personnel carriers who do not need impact and speed sensing features.

### Accountability For:

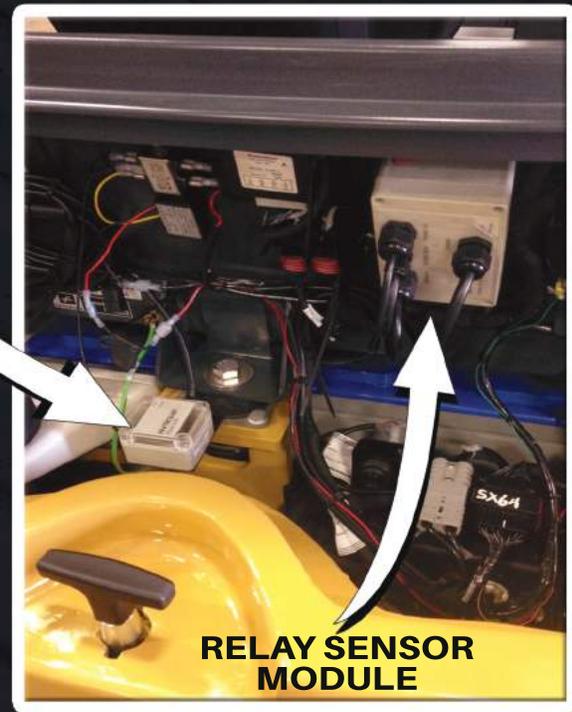
- > Reckless driving and damage (impacts)
- > Speeding over limit set
- > Daily pre-shift checklist completed
- > START/STOP times at shift and breaks
- > Abandonment of vehicles
- > Work time moving vs. idling
- > Work time loaded vs unloaded
- > Utilization: % in use since shift began
- > Recurrent training
- > PM maintenance completed

### Embedded Wifi Encryption:

- > Open access (no security)
- > WEP64 - WEP128
- > WPA1 - PSK (TKIP)
- > WPA2 - PSK (AES)
- > WPA1/WPA2 (AES)\*
- > Optional external radio covers all

### Specifications:

- Supply voltage:** 12VDC (converter for 24, 36, 48, 80VDC)
- Standby current:** 350mA with radio on, 40mA when "asleep"
- Temperature range:** -40 - 167F (-40 - 85C)
- Water immersion:** IP -67 for weather extremes
- Size:** 165mm x 95mm x 57mm (6.5" x 3.75" x 2.25")
- Approval:** ISO9000--CE--RoHS
- WiFi:** Configurable encryption
- Max relay contact current:** 1A/12V
- Endurance tested for:**
  - > High and low temp shock
  - > Overvoltage reliability
  - > High shock reliability
  - > Vibration reliability
  - > Condensation, salt spray reliability



SHOCK  
MODULE

RELAY SENSOR  
MODULE



- Model: LCDH-601 (HID reader)**
- Model: LCDS-601 (STD reader)**
- Model: LCDI-601 (SPECIAL reader)**

### All kits include:

- 1) Outdoor sealed capacitance keypad
- 1) Color LCD display
- 1) RFID card reader (specify type)
- 1) Relay sensor module with 5 auxiliary inputs
- 1) WiFi radio with encryption setup

### Optional:

- Impact sensing module
- Gear tooth or magnetic speed sensor
- Adjustable mounting bracket
- Voltage converter for 24, 36, 48, 80VDC
- Hyd sensor for loaded/vs unloaded, overload
- External flashing 120 dB siren alarm
- SMARTIE wireless DVR camera systems

UL approved and labeled for:  
EE, GS, LPS and DS safety rated forklifts



**KEYTROLLER**  
CREATING A CULTURE OF SAFETY



# KEYTROLLER Software Options

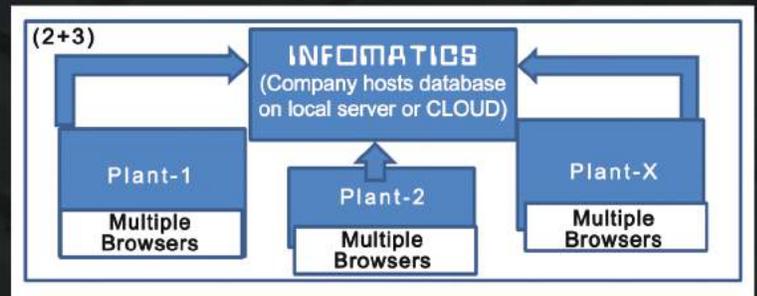
Comparison (INFOMATICS vs. FMS)

FEATURE	INFOMATICS	FMS
Cloud based	✓ No client installation of software	✗
Multiple web based clients	✓ Multiple plants access same software	✗
Local Installer	✓ Can also be installed on local server	✓
Data hosted by KEYTROLLER (optional)	✓ KEYTROLLER hosts DB on cloud (monthly \$ subscription cost per forklift)	✗
Granularity	✓ Programmable user level access to settings, reports, graphs, data , etc.	✗
Multiple training expiry dates	✓ Same driver, different machine expiry dates	✗
Speed of communication	✓ (50% faster than FMS)	✗
Trends (impacts, speeding etc...)	✓ Year to date + trailing 12 month graphs	✗
Reports by departments	✓ Users can look at reports by their department	✗
View video events (phase 2)	✓ SMARTIE video links for impacts, speeding, etc.	✗
Centralized database for different plants Vehicles from various time zones	✓ Multiple time zones, multiple plants in same DB	✗
Password protection	✓ Data is located in centralized location -- limited access to specific individuals	✗
Scheduled emails by department	✓ Schedule PDF reports emailed by department	✗

## INFOMATICS SOFTWARE

(3rd Generation Fleet Management Software)

- Local client hosted for single plant. (Purchase INFOMATICS Software)
  - Installed on the server and multiple clients in the same location will be able to access the software.
  - Data is hosted locally by the company itself.
- CLOUD hosted for multiple plants (Client purchases INFOMATICS Software)
  - INFOMATICS can be installed on server.
  - Multiple clients from multiple locations will be able to access the software.
  - Data is hosted locally by the company itself.
- KEYTROLLER hosts software and DB in CLOUD (Subscription \$/mo per forklift)
  - Client does not purchase INFOMATICS Software.
  - Multiple plants can access the software.



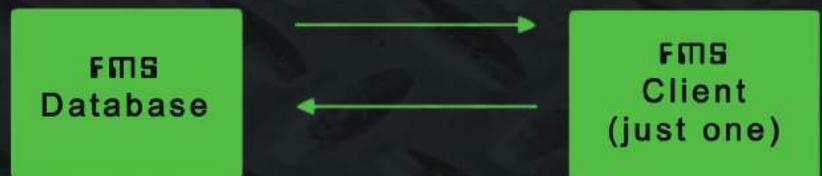
\*INFOMATICS has granularity (permission based) security for every plant and every user.

## FMS SOFTWARE

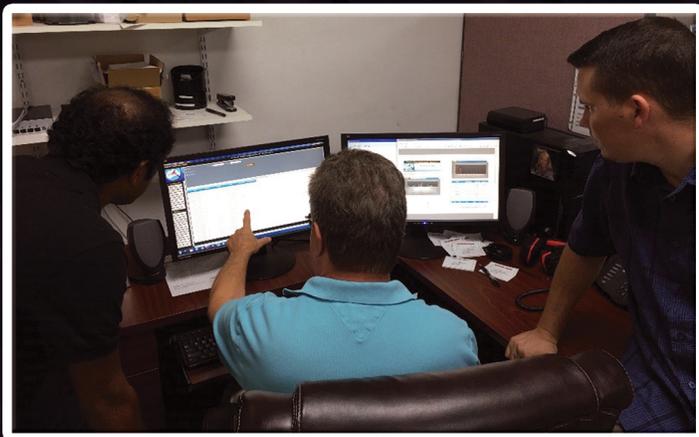
(2nd Generation Fleet Management Software)

- On your PC (Purchase Software)

FMS: local client hosted software with ONLY one client:



# HEYTROLLER'S proven technology + reliability! Most importantly - you also get our team!



All the forklift data in the world will do nothing if your new access monitoring system is not:

- Supported properly
- If you're not trained properly
- If it operates unreliably

## There will be ISSUES:

IT Issues, WiFi configuration Issues, training Issues, software Issues, firmware Issues, Implementation issues, support Issues. You had better be dealing with guys who have been there, done that - many times!

When you partner with HEYTROLLER, you get time tested and proven hardware and unmatched knowledge and experience - FROM THE GUYS THAT DESIGNED IT! NOT A RESELLER! NOT AN OEM! NOT A DEALER! Designing and producing access monitoring equipment since 1998 - over twice as long as ANY OEM forklift manufacturer system available today!

## Why deal with a NON-FORKLIFT OEM producer of access monitoring like HEYTROLLER?

- 1) We won't tie you into a particular OEM brand of forklift. HEYTROLLER has been doing this for nearly 20 years and virtually every brand of forklift has had HEYTROLLER units installed on them. You want to get "locked" into one brand of forklift? HEYTROLLERS have always been designed to fit to ANY make or model forklift (IC or EL).
- 2) You are dealing DIRECTLY with the designer, not a reseller or trainee.
- 3) NO charges for firmware or FMS software upgrades for the life of the product. Ask your OEM!
- 4) Does your OEM supplier send out automatic notifications of firmware and software upgrades? We do!
- 5) NO wireless charges, WiFi is standard - your network or our stand alone HEYTMESH WiFi network.
- 6) HEYTROLLER does NOT tie into CANBUS, only hi/lo inputs. So the device has absolutely NO effect on the forklift or on-board computer - we only start the vehicle with a relay instead of a key switch. We have not had one single warranty claim regarding damage done to a forklift - EVER.
- 7) OEMs frequently "hide" their monthly data and wireless costs in the price of a lease - when lease is up - you keep paying for the hidden wireless costs. We don't! When you purchase HEYTROLLER devices, there are NEVER hidden costs and you are paid up front in full.
- 8) Does the OEM device have a menu enabling you to "see" all of the internal settings of a particular forklift? We do!
- 9) Can the OEM device provide DVR wireless video camera options tied into the access device? We do!
- 10) Can the OEM device program checklists with Latin-based languages? Put your logo on it? We do!

**HEYTROLLER -- access monitoring experts - MAINTAINS your purchasing flexibility!**

  
**FORKLIFT TRAINING SYSTEMS**  
Phone: (614) 583-5749  
Email: [info@forkliftrainingssystem.com](mailto:info@forkliftrainingssystem.com)  
Website: [www.forkliftrainingssystem.com](http://www.forkliftrainingssystem.com)