

KEYTROLLER LCD

LCD501 Wireless "Full Featured" Vehicle Monitoring System



Features:

- > Starts-Stops vehicle directly from keypad----NO KEYS EVER!!
- > Makes operators accountable for reckless and abusive driving
- > Mechanic's checklist with comments allows log in by mechanic performing PM's or repairs
- > Programming can be done from PC, CYBERKEY or directly from keypad itself by programmer
- > RFID card or operator code can start any engine or electric powered vehicle
- > Card or code expiration date when recurrent training is due for each operator
- > Operator checklist must be completed at start of every shift-or, if chosen, by every new operator
- > Operator completes programmable checklist with PASS or FAIL of every item
- > "Flagged" checklist items that fail shut vehicle down until cleared by supervisor
- > Supervisor or mechanic card/code can lock out vehicle from access by operators
- > Impact sensors record damaging hits and can be programmed to shut vehicle down
- > Speed sensors (gear or magnetic) make operator aware and responsible for speeding
- > Re-programmable embedded software for enabling new applications
- > Easy downloading by wireless or CYBERKEY options 900mhz or 802.11 radios



Components:

1. LCD keypad: Time, date, operator name, hour meter, time (hrs or days) until maintenance is due, speed in MPH/KPH, impact intensity and direction, speeding events, usage, checklist events and gives supervisor access to stored events. RS232 serial port connection here.
2. Junction box connects to: keypad, vehicle power, shock sensor module, , speed sensor, engine low oil pressure, high temperature LED, seat belt, vehicle ignition switch, weight scale pressure transducer
3. KEYSOFT PC software for program-download of device from PC or CYBERKEY--CYBERWIRE options
4. CYBERWIRE plug and play wireless radio options

Benefits:

- > Keeps untrained and unauthorized operators from starting vehicle
- > Reduces damage in most applications 50+% by making operators accountable for abusive driving
- > Automates operator checklist Totally programmable for daily, weekly and monthly---by shift/operator
- > Insures preventive maintenance is performed---warns operator when it is due by date or hr meter
- > Maintains safe speeds within the facility---shows speed of vehicle
- > Protects engine with programmed shut down in high temp or low oil pressure events
- > Allows supervisor to view events from LCD screen or send wireless text messages to each device





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Vehicle Monitoring System Model 501LCD

Accountability:

- > Provides management with accountability data on:
 - operator productivity
 - abusive driving habits
 - equipment utilization
 - checklist items (how long each took to do)
 - when retraining is due for each operator
 - when maintenance was done and how long to do it
- > Operators are accountable for speeding and damage
- > Operators are accountable for daily pre-shift vehicle checklist
- > Mechanics are accountable for timely maintenance
- > Management is accountable for operator recurrent training



Operational: Starting from keypad

- > Operator inputs his code or waves RFID card in front to activate device
- > If code/card is accepted press START to start engine or electric motor
- > Completes operator checklist for each item (daily, weekly, monthly)
- > Display shows speed and warns him if he is over speed and alarms after grace period
- > Seat switch (if applicable) auto logs off operator when he leave seat



Programming and downloading can be done by:

- > Programmer from keypad--text entered from keypad
 - > Direct connection at serial power with laptop
 - > From CYBERKEY--eliminating need for PC connect
 - > From CYBERWIRE radio option



PC software --- windows based design:

- > Easy point and click programming
- > Filtering event log by: date, time, operator, vehicle, event
- > Graphing event log by: date, time, operator, vehicle, event
- > Clone file allows for quick programming of vehicle or operator groups
- > Thresholds adjustable for: maint, impacts, speed, shut down, warning, alarm etc



Wireless radio options:

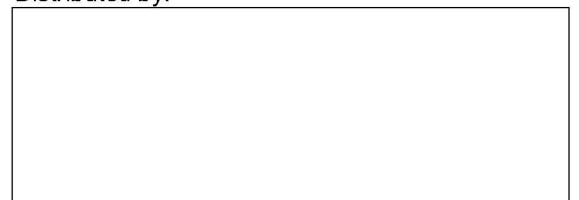
- > 900mhz for indoor or outdoor usage
 - o 1000'—1500' range indoors
- > 900mhz Ethernet network "host PC" radio for extended range
- > 802.11 "WiFi" radios for WiFi enabled, networked warehouse applications



CYBERWIRE and CYBERKEY



Distributed by:



KEYROLLER, Inc.



3907 W. Martin Luther King Blvd. Tampa, Fla. USA 3361

813-877-4500 Fx:813-871-6250 sales@keyroller.com

www.keyroller.com

