

## Model WIN-LC3000 Silo Loadout System

Designed to accurately control truck loading, print delivery tickets, store delivery data, and print operational reports. Provided with a name brand, consumer grade PC, along with a PLC hardware interface. Using a PC separately from any process automation provides the user flexibility in the choice of process control components and subsequent system upgrades.



### Operational Features.....

- Ability to control virtually unlimited number of silos.
- For reverse weigh or weigh batcher configurations, each silo can have a separate scale.
- Supports silos with two-speed or “dribble” gates. Dribble gates can increase loading accuracy.
- User specified Smart Default data entry automatically enters the customer, job, and task descriptions as last used by the selected truck *or* as used on the last ticket. No other data fields need to be entered unless changes need to be made.
- Fast Copy feature allows rapid and accurate data entry when multiple trucks are hauling to the same job by copying all of the data from any user selected ticket to the current load.
- Pop-up Ticket truck, customer, job, and material/mix lists allow the operator to browse through the data on file, edit the data, add new, or delete unwanted entries directly from the loadout display form without interrupting the loadout process.
- Entering a misspelled truck, job, or customer opens the appropriate list, searches for the nearest spelling match, and allows the user to select from this list or enter a new item.
- Measurement units can be specified as English lb., TONS, Metric kg, or TONNES.
- The freefall compensation is adjusted on each drop. Individual freefall values are maintained for each silo. The target drop size is also adjusted to correct for previous drop errors. These dynamic adjustments insure accurate drops and prescribed loads.
- Time coded truck tares are entered into the truck file every time a new tare weight is obtained. On *truck scale* systems, the tare weight is automatically read and updated before each load. On *weigh batcher* or *reverse weigh* systems, the truck tare weight may be entered manually.
- Gob hopper timing on *reverse weigh* silos may be controlled externally or by the computer.
- 2-compartment *reverse weigh* silos, such as those made by CMI and others, are supported.
- Loads from multiple silos simultaneously
- Each silo can utilize an independent remote kiosk printer or silos can share a printer
- *Optional* data transfer ability to home office via Internet or modem

### Silo Inventory.....

- Silo inventories are displayed in graphic and numerical form.
- *Truck Scale and Weigh Batcher Systems* – an external signal from most process blending systems can be used to increment an on-screen inventory that will be reduced by the amount weighed out of the silo. The resultant inventory value will give the operator a fair approximation of the actual amount of material in the silo.
- *Reverse Weigh Systems* – the actual measured silo weight is used for the current inventory.

### Tickets.....

- Cash sale tickets can be generated for mix shipped. Each individual material has its own price which can be modified at the time of sale to include freight charges for different delivery zones. The sales tax rate may be changed at time of sale for areas with different tax rates.
- Hand generated tickets can be entered and will be included in the data base. Tickets generated in this manner will be clearly marked as such.
- Manually loaded truck tickets can be automatically generated.
- Correction tickets can be generated, stored, and/or printed as desired. The information on the original ticket is changed while change history is retained in a non-editable database. Change reports are readily available. The operator can not alter the stored database of information by any other method.
- Copies of previous tickets can be printed. Copies are clearly marked as such.
- The silo loadout identifies the measurement units selected in the weighing unit and prints the ticket in English and/or Metric units as specified by the operator.
- Full featured ticket printing using up to 5-part preprinted or plain paper forms.
- A printer buffer allows data to be entered while tickets are simultaneously printing.
- User selected speed printing minimizes printer wear and maximizes printer output.

### Data Files.....

- Ticket file retains the entire ticket record and is available for viewing or printing. Tickets may be archived, so that only current tickets needed remain online. Archived tickets may be recalled and included in reports.
- Truck file retains the latest truck loading parameters.
- Job file – Up to 100 characters for name/ID and 4 lines of 35 characters per job description.
- Customer file – Up to 100 characters for name/ID and 4 lines of 35 characters per customer description.
- Material file – Up to 100 characters for material descriptions with separate price for each material.
- Data files are maintained in accounting standard MS™ SQL SERVER DBMS format and are available to the user.

### Database Backup and Reports.....

- A back-up of the entire database can be saved to the hard drive, to floppy diskettes, or delivered off-site by *optional* Internet or modem connection.
- Summary or detailed reports can include current and archived ticket data, can be sorted by truck, job, customer or material, and can be limited to a user specified range of dates.
- Reports can be printed to the printer or viewed on-screen.
- Custom reports are available.



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### Hardware Components.....

- Computer system – name brand, consumer grade PC.
- Programmable Controller – optionally isolated PLC plant interface. The operating temperature for the included PLC(s) is 32° to 131° F (0° to 55° C). The storage temperature for the PLC(s) is -4° to 158° F (-20° to 70° C).
- Video Display – low glare, flat screen, 1680x1050 LCD color monitor.
- Printer – IBM compatible, Okidata Model 320.
- Digitizer – stand alone, NTEP certified, Rice Lake Model 355 commercial grade weight indicators isolate the weighing and data processing functions for maximum reliability and ease of calibration. Meets NIST's Handbook 44 Class III/IIIL classifications.
- Easily interfaces to other indicators.

### Options Available.....

- Custom reports and custom ticket formats.
- An xBASE to SQL Server file conversion utility program will be available to the user for conversion from older SYSTEMS' LC-1000 and LC-2000 Loadout systems.
- A bar code of key delivery data can optionally be printed on the tickets.
- Remote printers are available and may be connected by parallel, serial or fiber cable, or by optional radio link. Different ticket formats can be used at each print location.

### SAFETY NOTICE & WARRANTY DISCLAIMER

*All equipment is tested for proper operation before shipping from the factory. Although no difficulty is typically expected, SYSTEMS cannot guarantee and will not warrant that this product will function safely and as described, if equipment is replaced by others, if additional equipment or software is installed, or if this equipment is used for other purposes.*

***Products are sold subject to SYSTEMS Equipment's current Warranty, Terms, & Conditions.***