

SiloWeigh.Net

SiloWeigh.Net is an inventory management and control system that allows an organization to monitor the weight of material in silos or vessels located across a very wide area. The information can be used to predict when deliveries will be necessary, even if the user is not aware of it, and allow appropriate action to be taken. For example, deliveries for the next day can be scheduled rather than reacting to urgent phone calls.



- Displays true weight; not level or volume; typical 2% accuracy is good for inventory measurement.
- Three types of sensor now available:
 - Silex bolttable sensor, now standard. Easy to install.
 - "Traditional" weldable sensor for special applications.
 - Liquid level sensor allows monitoring of a mix of solids by weight and liquids by level.
- Connects to local computer network as a web server, allowing any computer to view the bar-graph display.
- Uses standard web browser; no special software necessary, user friendly.
- Programmable alarm levels trigger colored bar graph frames and messages to warn of impending problems.
- Can manage an unlimited number of vessels.
- Remote capability allows the corporate head office to adjust certain settings and oversee calibration of remote vessels.
- The only system capable of weighing both sections of a divided silo and showing each separately.
- Up to 24 optional programmable alarm outputs capable of running lamps and horn in standard or custom alarm configurations with individual cancel.
- Extra inputs allow external functions such as silo overpressure switches to trigger alarms which, together with overfill alarm, eliminates possibility of blown bag filters and the expensive consequences.
- Transmits all data to a Siloweigh.Net server via local internet connection for data backup and monitoring from anywhere via www.siloweigh.net.
- History, trend graphs and alarm logs available for all vessels through password protected internet pages, viewable anywhere in the world.
- Dial-up, cellular and satellite modem connectivity also available when no local connection is available.
- Automatic reordering and delivery scheduling via connection to supplier's ERP system.
- TCP/IP communication minimizes extra software and keeps customer database secure.

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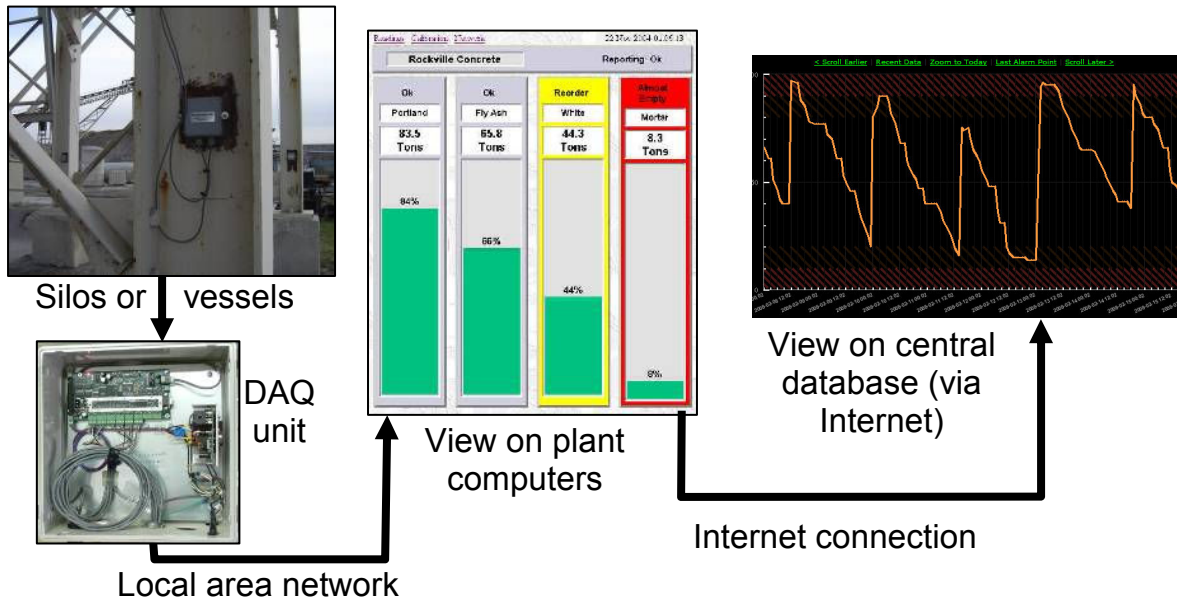
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DATA ACQUISITION

Up to 8 vessels in a single location (and more on special order) can be connected to the data acquisition unit, DAQ, which is installed close to the silos or vessels. The microprocessor module has capability for up to 8 regular analog silo/vessel inputs (solid, liquid or a mix), one divided silo/vessel and 4 regular silos/vessels or two divided silos/vessels. The DAQ unit records weight data at programmable intervals from 15 minutes to 8 hours, storing readings for an extended period in non-volatile on-board memory. Also stored are time and date of readings and 5 setpoints: emergency low, reorder level, high level, overflow and high usage rate; an optional output module allows alarm lamps or horns to be activated. The DAQ unit can be accessed by installation and service personnel equipped with a laptop or handheld computer running a web browser; internal server technology allows setup and calibration without need for external software.

Local display of weight readings can be done through a web browser, such as Microsoft Internet Explorer, running on any computer in the Local Area Network, to graphically display the bar graphs seen in the center illustration above. This method of viewing is simple, user-friendly and does not require any special software.

Optional database software running on any computer in the local area network gathers data from all DAQ units on the LAN and allows its presentation as trend graphs and tables, identically to the remote Siloweigh.Net server.

The DAQ unit can be used throughout the local area network alone, but its real power is in its internet database. The DAQ unit normally transmits its data to the SiloWeigh.Net server at selected intervals. If one of the alarm level setpoints is activated, however, the module transmits all available data immediately, allowing the status to be accepted by the host without delay. In this way, deliveries can be scheduled before the vessel is empty. If the host database is off line, unsent readings are stored and transmitted when it comes back on line. Optionally, the system can detect the occurrence of a gain in weight,, enabling the supplier to identify filling from either its own truck or a competitor's truck.

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ETHERNET BASED NETWORK

Since the DAQ unit appears as an Internet server, computers connected on the same network can access a series of Internet (HTML) pages that show current levels and weights in each vessel as well as giving access to setup/calibration through password protected pages. If the network is connected to the Internet, data is passed through the Internet to the SiloWeigh.Net server.

SATELLITE MODEM

When a local Internet connection is not available, a telephone modem can be used, with automatic dialup. Alternatively the Satellite Data Modem delivers reliable digital data communication virtually anywhere in the world using the Globalstar constellation of 48 Low-Earth-Orbit (LEO) satellites. The GSP-1620 Satellite Data Modem can cost-effectively retrieve data automatically from isolated locations. The SiloWeigh.Net system, when connected to a Satellite Data Modem can monitor remote operations and initiate alert notifications. Iridium service is also available.



Because the service is based on IP packet technology, users only pay for the amount of data they send and receive, and not for the amount of time spent online.

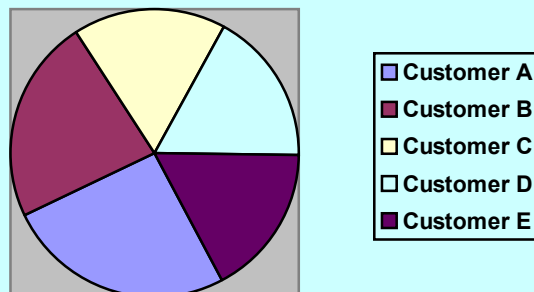
SILOWEIGH.NET TRANSMITTER SPECIFICATIONS

Plant data acquisition system	8 silo/vessel inputs, allowing 8 regular silos, one divided silo and 4 regular silos or two divided silos to be monitored simultaneously
Data outputs	one Ethernet port, one RS232 serial port, 24 discrete digital alarm input/output points
Local indication	digital display of weight in tons for each silo via PC computer based browser connected to the Ethernet port
Remote data transmission	over plant data network and Internet to SiloWeigh.Net server. If plant network not available, over phone modem or satellite modem to server
Alarm outputs	Opto-22 solid state relays in any combination of up to 8 inputs and up to 24 outputs, 24 modules total, any voltage AC or DC by choice of appropriate modules

THE SILOWEIGH.NET WEB BASED DATABASE

The SiloWeigh.Net SQL database is housed on a commercial server with professional maintenance and backup service to ensure your data is never lost, is secure from hacker attack and is available to you all the time, any time, 24 hours a day, 7 days per week. Whether you choose to link the SiloWeigh.Net database to your own company database or use SiloWeigh.Net's services for all our needs, the SiloWeigh.Net server is your source for silo data.

Main database holds many clients' data



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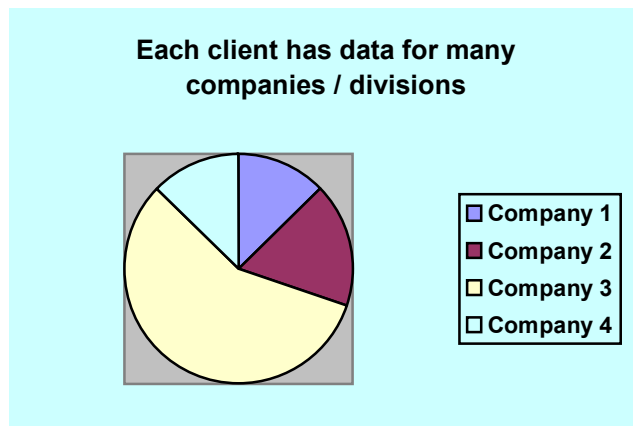
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The single database is subdivided among all SiloWeigh.Net's clients, each having its own passwords for access.

In your company's area, you have the ability to store data for your own customer companies, divisions and plants or sites. Each plant/site holds data for all its silos, which can be displayed individually or as groups holding the same product. The data can be displayed directly as tables of data as it is received, or sorted by company, site, time and date etc. It can also be displayed in graphical form for each site, as a trend graph which can be zoomed to any time and date period.



In addition to the weight data, the database holds a record of each alarm condition encountered, with time and date.

Any or all the data is accessible by a remote database server, using TCP/IP protocol, enabling it to be combined with private company data on customers, products and orders to organize dispatching of deliveries or sales.



Automatic order generation can be implemented as a TCP/IP transfer, an Email or even to a mobile phone or Blackberry. The order process inhibits further orders until delivery takes place for extra security.

Individual client areas can be customized with additional data and reports etc. In addition, Siloweigh.net is undergoing a major upgrade. New features are becoming available. Check our web site, www.scaletron.com, or contact us for latest information.

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