C-100

Display Console

*Local monitoring of bin levels
at the push of a button*

The C-100 console is an easy and affordable way to view level measurement data from multiple sensors at a single location. Just one console can display data for up to 120 sensors, making it a very cost-effective solution. Simply mount the C-100 in a convenient walk or drive up location for staff to access inventory data without going to the control room or office. The C-100 console can be used as a stand-alone device or integrated into a network that is also using BinView® or Binventory® software.

Vast Vessel Information

Measurements can be displayed as distance to product, height of product, percent full, and weight. The weight display function is derived using a Wizard type menu to estimate weight – calculated using the vessel shape, dimensions, and the product density in lb./ft.^{3} or kg/m^3.

One Console Displays Many Bins

The C-100 console has one 4-20 mA output and remote start contact to interface one sensor to a PLC/DCS system. It also has a RS-232 port for future flash updates.

The C-100-SB and C-100-R can interface with the C-50 analog expansion console to provide additional 4-20 mA outputs. The C-50 is needed when the console is used to monitor more than one bin for analog output to a PLC. Each C-50 holds up to 6 analog expansion cards, with each card providing four 4-20 mA analog loops. Up to five C-50 consoles can be used with one C-100 for a total of 120 bins. Users scroll through bins using the arrow keys.

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Models of the C-100

C-100-SB

The C-100-SB is used with SmartBob sensors. As SmartBobs take measurements at timed intervals, the console will display the last measurement taken. A bob drop can be initiated between measurement intervals from the console to get a current reading. The console displays the status of the SmartBob during the measurement cycle.

C-100-MB

The C-100-MB takes the SmartBob RS-485 signal and converts it to a Modbus protocol for plants that want additional processing power to send data to a PLC. This allows SmartBob data to interface with equipment using Modbus/RTU and Modbus/ASCII.

C-100-R

The C-100-R is compatible with the NCR series non-contact radar, GWR guided wave radar, and the SmartSonic ultrasonic level sensors.

Simple Setup

At setup, individual bin parameters are programmed into the C-100. Using an auto detect feature, the C-100 surveys and creates a list of the sensors connected to the network. Additionally, it can master load characteristics of similar vessels, saving users time versus manually loading information for each individual vessel. All bin parameters, last measurement data and all user settings are retained in the C-100 memory in the event of power loss.

User-Friendly Operation

- Back lit LCD retrieves and displays vessel data instantly
- Intuitive user interface makes it easy to configure the unit
- Menu system for setup and value adjustments
- Six-button, membrane style external keypad
- Enter key, escape key, and four directional keys

Designed for Industrial Use

- Impact resistant, NEMA 4X polycarbonate plastic enclosure
- Installs indoors or in a protected outdoor environment
- Wall mounted using screw holes
- Wiring compartment is easily accessible for installation and maintenance
- Signal communication from the sensor(s) to the C-100 can be hard-wired or transmitted wirelessly using a wireless transceiver option
- Industrial operating temperature range of -4°F to 158°F (-20°C to 70°C)
- Two water-tight cord grips to securely attach cables
- Surge protection circuit provides transient protection from lightning

C-100-0620-BLC