Convenient 4 - 20 mA Outputs
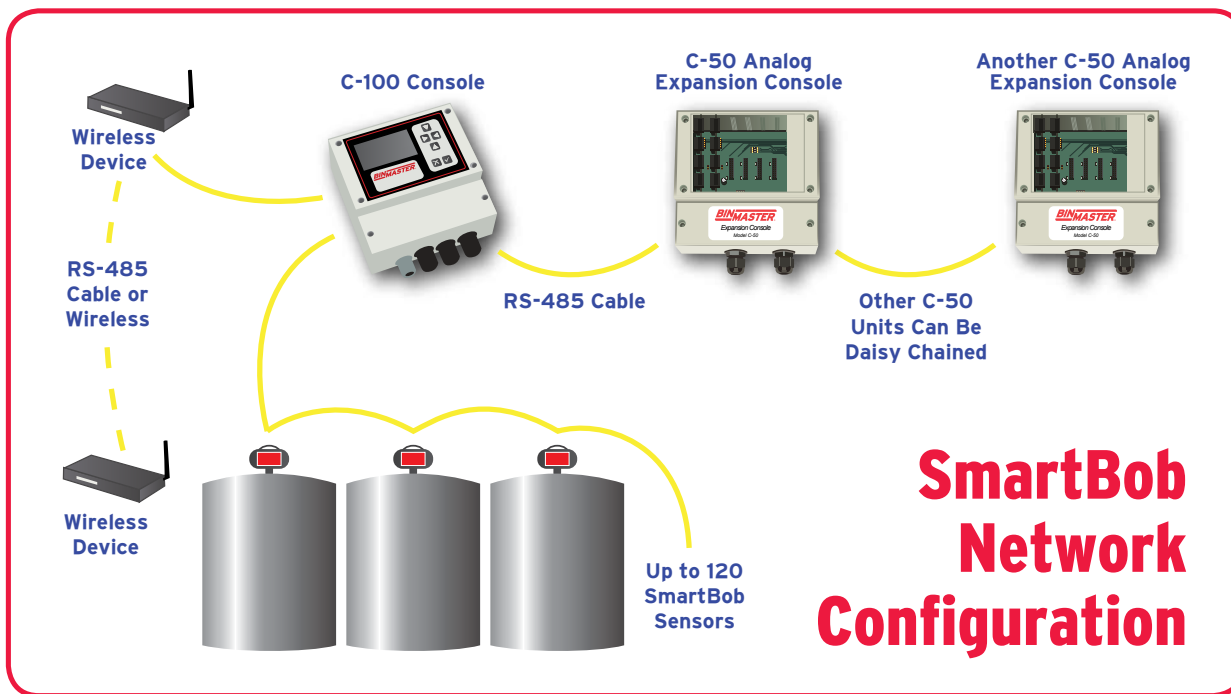# for Networked Communications

The C-50 Analog Expansion Console interfaces with the C-100 SmartBob Control Console to provide multiple 4 - 20 mA outputs, enabling monitoring of multiple bins equipped with SmartBob2 or SmartBob-TS1 sensors from a single C-100 SmartBob Console. The C-50 Analog Expansion Console connects to the C-100 SmartBob Console via a dedicated RS-485 cable. Then, the C-100 SmartBob Console is connected via a daisy chained RS-485 network to monitor from 1 to 120 SmartBob sensors.

Both SmartBob2 or SmartBob-TS1 sensors and the C-50 Analog Expansion Console are programmed and controlled by the C-100 SmartBob Control Console. Wiring and installation costs are considerably reduced by utilizing a single cable RS-485 network and locating the C-50 Analog Expansion Console close to the location the 4 - 20 mA outputs are hardwired.

Requires Less Equipment to Monitor More Bins

This network configuration is highly cost effective, as less equipment is required to monitor many bins. Since there is less equipment to install and less wiring, it also saves time and requires fewer man hours for initial set up. Each C-50 Expansion Console has six card slots. Each card can support four 4 - 20 mA outputs and four dry contact closure inputs allowing each C-50 to support from between 4 and 24 external outputs.

Furthermore, up to five C-50 Expansion Consoles – each monitoring 24 SmartBobs – can be daisy-chained in a single network, allowing for a total of up to 120 SmartBob devices to coexist on the network and their measurements be monitored from just one C-100 Control Console.

Wireless Device

RS-485 Cable or Wireless

Wireless Device

C-100 Console

C-50 Analog Expansion Console

Another C-50 Analog Expansion Console

RS-485 Cable

Other C-50 Units Can Be Daisy Chained

Up to 120 SmartBob Sensors

SmartBob Network Configuration

SmartBob2 C-50
Analog Expansion Console

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- The "one to many" configuration accommodates multiple 4 – 20 mA outputs from a single device, requiring less equipment to monitor many bins.

- This configuration works with both SmartBob2 and SmartBob-TS1 sensors.

- Each C-50 Expansion console has six card slots with each card supporting four industrial 4 – 20 mA analog outputs, allowing each C-50 to support from four up to 24 analog outputs.

- Each 4 – 20 mA output has a dry contact closure input used to trigger sensor measurements.

- Up to 5 Expansion Consoles can be supported on a single network, each capable of supporting 24 analog I/O ports allowing a total of 120 bins to be monitored.

- The polycarbonate, wall-mountable enclosure offers good impact resistance. It can be mounted in an indoor area using a screw-in wall mount option.

- RS-232 port for Flash updates and maintenance.

- Meets U.S. and international requirements for control of electromagnetic interference (EMI) and electrostatic discharge (ESD).

Power Requirements	8 W minimum for 3 or less I/O cards 16 W minimum for 4 or more I/O cards
Connection	RS-485
Industrial Output	Continuous 4 - 20 mA
Maintenance Port	RS-232
Operating Temperature	-4°F to 140°F (-20°C to 60°C)
Enclosure	Polycarbonate, NEMA Type I, IP40
Dimensions	6.5" x 6.3" x 3.5" (166mm x 160mm x 89mm)
Mounting	Wall mount using screw holes

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Contact :
hvssystem@hvssystem.com

Tél : 0326824929
Fax : 0326851908

Siège social :
2 rue René Laennec
51500 Taissy
France

www.hvssystem.com

Upper accessible compartment holds one to six expansion cards

Lower compartment features standard size cord grips for power and communications wiring