



# *Sterling Controls, Inc.*

## SCI-1024 PROCESS CONTROLLER



The SCI-1024 is a micro-processor based unit that is a low cost alternative to expensive process control solutions. The unit is flexible, easy to operate, and adaptable to many applications. This multi-use process controller is capable of controlling applications where repeatability, quality and consistency are concerns in the manufacturing process. The unit is used in weighing applications either in a gain-in-weight or loss-in-weight process on a continuous or batch basis. Additionally, the unit is used in many material handling applications where weighing is not involved in the application.

User programmable and expandable, the SCI-1024 features formulation & ingredient management, as well as tracking inventories. Multiple scale and virtually unlimited I/O capability are strengths of the unit.

### APPLICATIONS:

- Continuous Loss in Weight
- Continuous Gain in Weight
- Static Gain in Weight Batching
- Static Loss in Weight Batching
- Single Scale Systems (Static and Continuous Weighing)
- Multiple Scale Systems (Static and Continuous Weighing)
- Process Control (Sequencing and Interlocking Systems)
- Manual Prompt System (Tolerance Control)
- Volumetric System
- In-Motion High Speed Weighing Systems
- High Speed Packaging Systems
  - Bagging
  - Boxes
  - Buckets
  - Other Containers

### INDUSTRIES SERVED:

- Food
- Chemical
- Plastics
- Fertilizer—Liquid/Dry
- Agricultural
- Pharmaceutical



## *Sterling Controls, Inc.*

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## COMPUTER

- Two bi-directional isolated RS-232/422/485 serial ports.
- Network node address rotary switches for RS-485 based network
- 24 bit digital IO port can drive industry standard solid state relay boards.
- Real time clock chip to provide time and date capabilities.
- Up to 512K EPROM for program storage.
- Up to 512K Non-volatile RAM for data storage.
- Two high speed timer/counter channels.
- Expandable with 4 industry standard SBX ports. Expansion boards available include a loadcell board, serial IO board, digital IO board, and an analog IO board as well as those available from other manufacturers.

## LOADCELL EXPANSION BOARD

- Two channels—can read two independent scales.
- Each channel can power up to 10 standard loadcells (350 ohm).
- Uses the latest Delta-Sigma A-D convertor technology. On chip digital filtering provide a degree of immunity to vibrations and electrical noise.
- Electrically isolated between each channel and base board to prevent ground loop problems.

## SERIAL IO EXPANSION BOARD

- Two bi-direction serial ports.
- Each port is selectable as RS-232, RS-422, or RS-485.
- Electrically isolated between each port and base board to prevent ground loop problems.
- Indicator lights show status information.

## DIGITAL IO EXPANSION BOARD

- Two 24 bit digital IO ports.
- Each port can be directly interfaced to industry standard solid state relay boards.

## ANALOG IO EXPANSION BOARD

- One analog input and one analog output.
- Input and output can be configured for: 4 to 20mA, 0 to 20 mA, 0 to 10V, 0 to 5V, -10 to 10V, -5 to 5V.
- Electrically isolated between input, output, and base board to prevent ground loop problems.

## KEYPAD

- 36 keys with tactile feedback.
- Insertable key legends allow customization to application.
- Logo pocket for private label products.

## PACKAGING

- Panel mountable.
- NEMA 4X
- Polyester membrane front offering excellent abrasion and chemical resistance.
- Dimensions: 8.5" x 11" h x 2.5" d

## POWER REQUIREMENTS

- 110V-220V
- 50Hz-60Hz

## DISPLAY

- 4 line by 20 character.
- 5mm character height.
- Vacuum fluorescent providing excellent visibility.

