





PROCESS WEIGHT CONTROLLERS

applications

- Process Control
- Truck Scale I/O Weighing
- Filling and Batching
- Inventory Monitoring & Control
- Set Point Control
- Fieldbus/Ethernet Connectivity
- Multiple Weighing Systems
- Peak Weight Hold



Model 460 - 5 Key

Model 465 - 22 Key

features

- Programmable Macros
- Programmable Databases
- Programmable Data Registers
- 20-Bit A/D Resolution
- 100,000 LED Display Digits
- 16-Bit D/A Analog Output
- RS-232/422/485 Interfaces
- Stainless Panel Mount Option

SENTRAN, LLC

California Commerce Center 4355 Lowell Street Ontario, CA 91761-2225

Toll Free: 1(888) 545-8988 Phone: 1(909) 605-1544 Fax: 1(909) 605-6305 Email: mail@sentranllc.com URL: www.sentranllc.com

Simply Unbeatable Performance, Versatility and Value!

- Resolution, accuracy and speed all contribute to the versatility of the 460 Series Process Weight Controllers. Choose the simple 5-key Model 460 when parameters changes are infrequent, or choose the Model 465 for the convenience of frequent data entry and control.
- Standard programs include: Single or dual speed Batch Control of up to 8 ingredients with Pre-Act; Checkweighing w/ targets and tolerances; Remote Display Mode (slave device).
- Communication with the 460 Series is simplified using the standard Modbus[®] protocol or the
 optional ProfiBus, DeviceNet ot Ethernet modules. Using the Custom Transmit Tables,
 transmissions can be programmed to send ASCII control codes, data registers or weight
 data. Receiving data via RS232 into the Input Interpreter Tables provides a means to invoke
 specific programmed tasks.

Programmable Flexibility... Easy Operation!

- Equipped with the industry's most sophisticated parameter mapping capabilities and programmable features, the 460 Series delivers flexibility and easy to use operation.
- Macros—15 programmable macros, applies the principles of Boolean logic in a sequential structure, provides a method of performing repetitive keystrokes and operations, simplifies indicator use by automating indicator operation.
- Database—15 programmable databases are used to manage critical application data, this powerful feature stores weight information and other user defined Data Registers such as part numbers, formulas, etc., 18 functions included store, recall, sort, upload.
- Data Registers—15 programmable data registers can be defined as an integer, unsigned integer, float or string, common data registers include part number, lot#, Operator ID, commodity code, etc.



NEMA

4/4X

Innovative Measurement Solutions



performance

AC: 90 - 250VAC; 50/60Hz, or DC: 10 - 32VDC

16ms (max)

DC: 3 - 30 VDC

10ms

Modbus™ 150 - 58,300 bps

AC: 20 - 240 VAC @ 1A DC: 30 - 60 VDC @ 2A

AC: 60 - 135 VAC; 200 - 250 VAC

Invokes macros 6 & 7 if programmed.

RS232 Full Duplex; No RTS on COMM 2

4 - user defined RS232 output tables

15 - user defined RS232 input tables

0.5A Slo-Blow (when using AC power)

8 physical (max); 4 Internal/4 Remote; Option to expand to 16 (8 physical, 8 logical)

2 total for remote operation of function keys (TARE, PRINT, START, STOP, etc.)

RS232 Full Duplex; or RS485 Multi-Drop (option); or 20mA Current Loop (option)

The SBM Serial Bus Module are modules that are interconnected on a serial communication bus.

electrical

Power:

Fuse:

relay I/O (options)

I/O Scan Rate: Number of I/O: Output Voltage Rating:

Input Voltage Rating:

I/O Timer Resolution: Remote Contact Input:

communication

Port 1: Port 2: Protocols: Baud Rates: Custom Transmit Tables: Input Interpreter Tables:

options (1)

dimensions

 Multi-Scale Module (SBM) Allows for simultaneous monitoring of an additional signal input. Analog Output Module^(SBM) Isolated 16-bit analog signal output; Output formats: 0-10VDC, 0-20mA or 4-20mA; Software . adjustment of zero and gain settings; Up to 2 analog modules can be installed • I/O Relay Module^(SBM) -8 Variations of Quad I/O boards; (AC & DC versions configured for 4 Output, 4 Input or 2 Input/ 2 Output). Specifications above. Isolated serial communication module replaces RS232 on Port 1; Multi-drop with 251 devices (max); . RS485 Module -Half or full duplex up to 4000 feet; 56K bps (max). 20mA Current Loop -Isolated serial communication module replaces RS232 on Port 1; TX - Active or Passive; RX-Passive; 9600 bps (max); 12 VDC; 1000 foot loop (max). Alpha Keyboard -Allows alpha character entry into data registers; Examples are product names, part number, and similar alpha data. Dura-Shield -0.020" layer of weather resistant Lexan $^{\otimes}$ film with adhesive backing; Applied to the front of the • indicator, Dura-Shield keeps the display and keypad clean in hostile environments. GSE ReFlash Software -• Facilitates the downloading of firmware enhancements via the RS232 port. • BDM Flash Software -Facilitates the downloading of firmware enhancements via the BDM port. ⁽¹⁾ Note: Only 1 Serial Bus Module (SBM) and 1 communication module mount in the enclosure. Additional expansion supported externally.

Model 460 IndicatorModel 465 IndicatorKeypad:5 key, durable elastomeric (rubber)22 key, durable elastomeric (rubber)Size:11.01* W (27.98cm) x 7.24* H (18.39cm)11.01* W (27.98cm) x 8.96* H (22.76cm)Weight:6.5ib (2.95kg)7 lb (3.18kg)

SENTRAN periodically introduces product enhancements. Specifications are subject to change without notice. Certified drawings are available upon request.