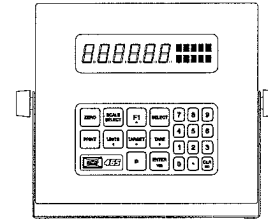


Model 460



Model 465

Applications

- Truck Weighing Programs
- Checkweighing Routines
- Parts Counting and Inventory Control
- Filling and Batching
- Multi-Range Scale Indication
- Peak Weight Hold

FEATURES

- Selectable Weighing Units
- VFD Display
- Remote Tare, Print, Zero
- Panel Mounting
- AC or DC Operation
- 15 Macros
- 15 Data Registers

APPROVALS

- NTEP COC# 01-031A1
- PTB
- CE
- Canadian Weight and Measures
- ETL



SPX Corporation
 42860 Nine Mile Road
 Novi, Michigan 48185
 Phone 248-596-0600
 Fax 248-596-0601
 Toll Free: 800-755-7875

In Canada: 403-948-9921
 Website: www.gse-inc.com
 Email: gsesales@gsesales.spx.com

Your authorized GSE distributor is:

SPECIFICATIONS

Performance:

Full Scale (F.S.)	Selectable 0.01 to 999,990
A/D Conversion	60 Hz
Resolution	20 bit A/D converter, 100,000d displayed, 1,000,000 internal
Zero Track	Off – 10d
Zero Range	Selectable, 0.01-100% Full Scale
Non – Linearity	0.005% Full Scale, Load Cell dependent
Operating Temperature	-10° C to +40° C
Warranty	2 year limited
Units of Measure	4 user defined per scale
Custom Units	2 user defined per scale
Time/Date Clock	Volatile, battery backed optional

Electrical:

Power Requirement	AC 90 – 250 VAC /50/60 Hz DC 12 – 36 VDC
Excitation Voltage	10 VDC, short circuit protected
Max. Excitation Current	350 mA, powers (12) 350 ohm bridge load cells
Fuse	0.8A Slow – Blow (when using AC power)
Signal Input Sensitivity	0.1 – 20 mV/V
Signal Connection	4 or 6 lead with sense leads

Process Control

I/O Scan Rate	16 ms maximum
Number of I/O	16 total (8 physical – optional, 8 logical – software)
Remote Input	2 total of TARE, PRINT, ZERO. START, STOP – Invokes macros 6 & 7 if programmed

Communications

Port 1	RS232 Full Duplex serial port, RS 485 and 20 mA optional
Port 2	RS232 Full Duplex, no RTS on COMM 2
Protocols	Modbus™, (DeviceNet™, Profibus, Ethernet optional)
Baud Rate	150 – 58,300 bps
Custom Transmit Tables	4 – user defined RS232 output tables
Input Interpreter Tables	15 – user defined RS232 input tables

Display

VFD
 Bright 6 digit .75" (20 3mm) Vacuum Fluorescent (VFD) with 2x5 (10 character) dot matrix for scale status and operator prompting

Enclosure

Keypad	460, Durable elastomeric (rubber), 5 Key (Zero, Print, Units, Tare, Select) 465, Durable elastomeric (rubber), 22 Key (Zero, Print, Units, Tare, Select, Enter, Scale Select, Clear, 1 Function, Target, ID and Full Numeric) NEMA 4X, IP66 design 7 lb.
Stainless Steel	
Shipping Weight	

Options

Analog Output Module	0-10 VDC, 20mA, 4-20 mA., optically isolated, Software adjustable zero/gain (2 analog modules max.)
Multi-scale Module	allows for simultaneous monitoring of an additional signal input
I/O Relay Module	8 variations of Quad I/O boards. (AC & DC – 4 output, 4 input or 2 in / 2 / out) only one option mounts inside the enclosure.
RS485 Module	Isolated multi-drop with 251 devices max, half or full duplex up to 4000 feet, 56K bps max
20mA Current Loop	Isolated TX-Active or Passive, RX-Passive, 9600 bps max, 12VDC, 1000 foot loop
Database	256K RAM, battery backed. Store critical application data
Alpha Keyboard	allows alpha character entry into data registers such as Product, Name, Part Number, etc.
Dura-shield	0.020" layer of weatherable lexan film with adhesive backing, applies to the front of the indicator, keeps display and keypad clean in extreme environments
Refresh Software	download firmware enhancements and update
DeviceNet™	ODVA approved interface module for fieldbus networking
Profibus	PTO approved interface module for fieldbus networking
Ethernet	Communication via intranet or internet connection