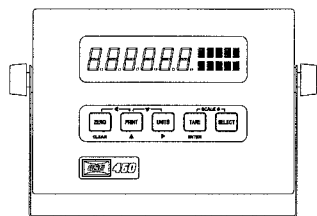




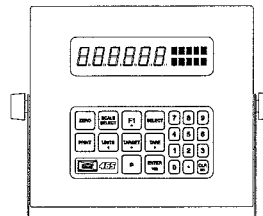
**scale
systems**

460 Series Digital Indicators

MODEL 460 AND MODEL 465



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



Measurement
Canada
An Agency of
Industry Canada

Mesures
Canada
Un organisme
d'Industrie Canada

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: gseales@gseales.spX.com

Your authorized GSE distributor is:

SPECIFICATIONS

Performance:

Full Scale (F.S.)
A/D Conversion
Resolution
Zero Track
Zero Range
Non – Linearity
Operating Temperature
Warranty
Units of Measure
Custom Units
Time/Date Clock

Selectable 0.01 to 999,990
60 Hz
20 bit A/D converter, 100,000d displayed, 1,000,000 internal
Off – 10d
Selectable, 0.01-100% Full Scale
0.005% Full Scale, Load Cell dependent
-10° C to +40° C
2 year limited
4 user defined per scale
2 user defined per scale
Volatile, battery backed optional

Electrical:

Power Requirement
Excitation Voltage
Max. Excitation Current
Fuse
Signal Input Sensitivity
Signal Connection

AC 90 – 250 VAC /50/60 Hz
DC 12 – 36 VDC
10 VDC, short circuit protected
350 mA, powers (12) 350 ohm bridge load cells
0.8A Slow – Blow (when using AC power)
0.1 – 20 mV/V
4 or 6 lead with sense leads

Process Control

I/O Scan Rate
Number of I/O
Remote Input

16 ms maximum
16 total (8 physical – optional, 8 logical – software)
2 total of TARE, PRINT, ZERO. START, STOP – Invokes macros 6 & 7 if programmed

Communications

Port 1
Port 2
Protocols
Baud Rate
Custom Transmit Tables
Input Interpreter Tables

RS232 Full Duplex serial port, RS 485 and 20 mA optional
RS232 Full Duplex, no RTS on COMM 2
Modbus™, (DeviceNet™, Profibus, Ethernet optional)
150 – 58,300 bps
4 – user defined RS232 output 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.) allows for simultaneous monitoring of an additional signal input 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. Isolated multi-drop with 251 devices max, half or full duplex up to 4000 feet, 56K bps max
Isolated TX-Active or Passive, RX-Passive, 9600 bps max, 12VDC, 1000 foot loop
256K RAM, battery backed. Store critical application data allows alpha character entry into data registers such as Product, Name, Part Number, etc.
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
download firmware enhancements and update
ODVA approved interface module for fieldbus networking
PTO approved interface module for fieldbus networking
Communication via intranet or internet connection

Multi-scale Module
I/O Relay Module

RS485 Module

20mA Current Loop

Database
Alpha Keyboard

Dura-shield

Reflash Software
DeviceNet™
Profibus
Ethernet