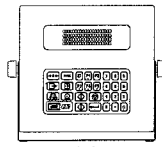
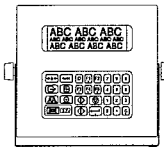


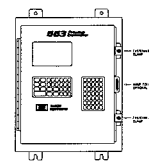
Model 660



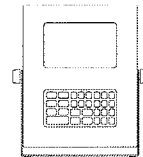
Model 661



Model 662



Model 663



Model 665

APPLICATIONS

- Batching and Filling
- Process Control
- Inventory Control
- Parts Counting
- Shipping and Receiving
- Vehicle Weighing

FEATURES

- Time and Date Clock
- Selectable Weighing Units
- VFD or LCD Display
- Remote Tare, Print, Zero
- Panel Mounting
- AC or DC Operation
- 250 programmable macros
- 250 programmable databases
- 999 programmable data registers

APPROVALS

- NTEP COC# 01-013A1
- 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.gsc-inc.com
Email: gscsales@gscsales.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 100,000d displayed, 1,000,000 internal
Flash Memory 1 M Bytes
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, 2 custom units
Time/Date Clock Real time clock

Electrical:

Power Input AC, 90 - 250 VAC, 50/60 Hz, DC, 10 - 32VDC
DC Output +5VDC, +24VDC
Excitation Voltage 10 VDC, short circuit protected
Excitation Current 400 mA, short circuit protected
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
Excitation Power 14 - 350 ohm bridges

Process Control

I/O Scan Rate 16 ms maximum
Number of I/O 128 combination, input and output
PDIO Frequency 8Hz - 100KHz
PDIO Voltage 5 VDC
Counter Input Frequency PDIO 8Hz - 100K Hz

Communications

Port 1 RS232 Full Duplex serial port, RS 485 and 20 mA optional
Port 2,3 RS232 Full Duplex
Port 4 RS232 Full Duplex or TTL interface to 4x20 VFD
Protocols Modbus™, (DeviceNet™, Profibus®, Ethernet optional)
Baud Rate 150 - 115K bps
Custom Transmit Tables 4 - user defined RS232 output tables
Input Interpreter Tables 15 - user defined RS232 input tables

Display

VFD 660/663/665 - Bright 6 digit 75" (20.3mm) Vacuum Fluorescent with 2x5 (10 character) dot matrix for scale status and operator prompting.
661/663/665 - Bright 4 line x 20 character Vacuum Fluorescent Display, 0.31"
LCD 662 - 8 line x 40 character graphic display, backlight, 3 font sizes
663/665 - 16 line x 40 character graphic display, backlight, 3 font sizes

Enclosure

Keypad Durable elastomeric rubber, 28 Key (Zero, Print, Units, Tare, Select, Enter, 5 Function, Scale Select, Clear ID, Start, Stop, Setup and Full Numeric
NEMA 4X, IP66 design
660/661/662 7 lbs., 663 47 lbs, 665 13lbs.

Options

Analog Output Module 0-10 VDC, 20mA, 4-20 mA., optically isolated, Software adjustable zero/gain (8 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, 1 Meg, 2 Meg RAM, battery backed.
Alpha Keypad Elastomeric, available on the 663 only
SCR Module max. load 1.75A RMS, 20-280VAC, 50/60Hz
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
Reflash 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