GSE

A member of the
Avery Weigh-Tronix Group

460 Series Digital Indicators

Model 460 and Model 465

460

465

SPECIFICATIONS

ELECTRICAL

Power Requirement: AC 90–250 VAC/50/60 Hz
DC 10–32 VDC

Excitation Voltage: 10 VDC, short circuit protected

Max. Excitation Current: 350 mA,
powers (12) 350 ohm weight sensors

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

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–20d

Zero Range: Selectable, 0.01-100% Full Scale

Non–Linearity: 0.005% Full Scale, Load Cell dependent

Operating Temperature: -10° C to +40° C

Units of Measure: 4 user defined per scale

Custom Units: 2 user defined per scale

Time/Date Clock: Volatile, battery backed optional

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)

DISPLAY

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

COMMUNICATIONS

Port 1: RS232 Full Duplex serial port or RS 485
or 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

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PROCESS CONTROL

I/O Scan Rate: 16 ms maximum

Number of I/O: 16 total (8 physical–optional, 6 logical–software)

Remote Input: 2 total of TARE, PRINT, ZERO, START, STOP–Invokes macros 6 & 7 if programmed

ENCLOSURE

Stainless Steel: NEMA 4X, IP66 design

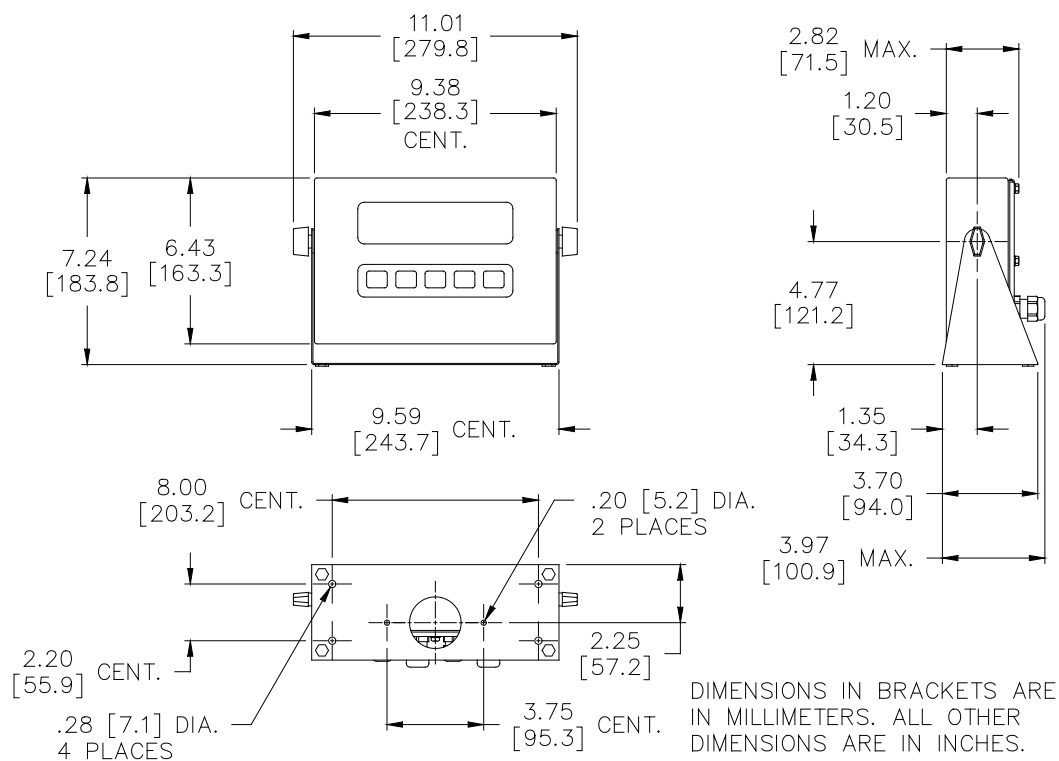**Shipping Weight:** 7 lb.

APPROVALS

- NTEP COC# 01-031
- PTB
- CE
- Canadian Weight and Measures AM-5417
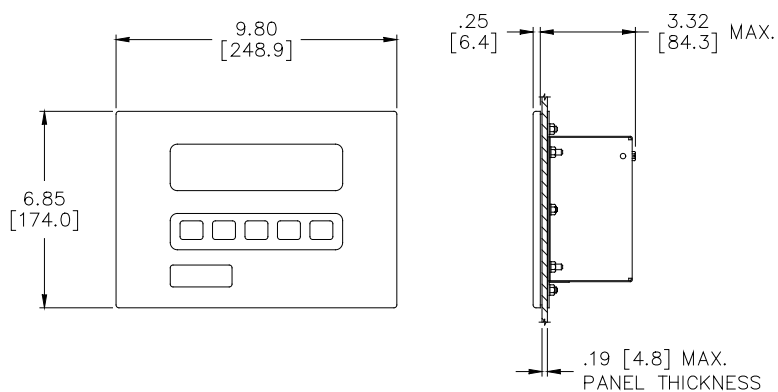- ETL

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
- **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
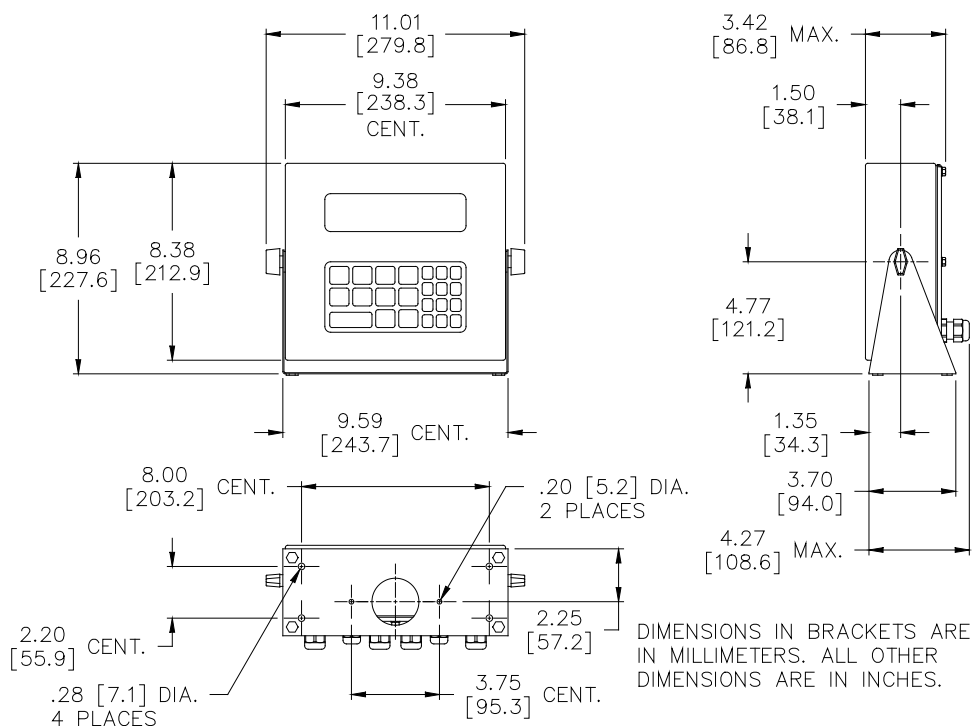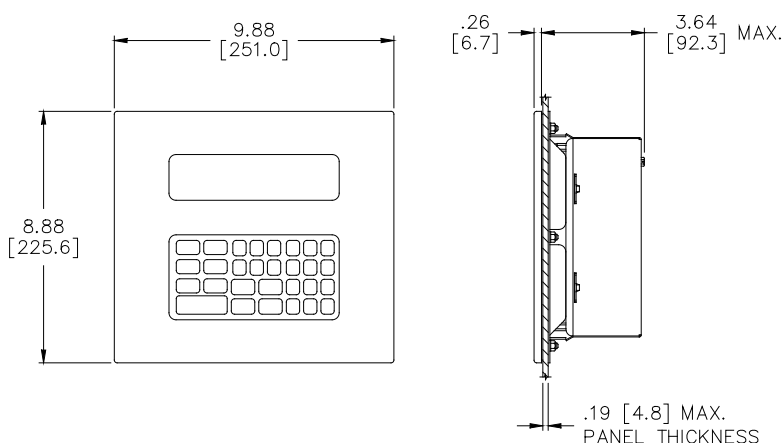- **STVS:** Severe Transient Voltage Suppressor

DIMENSIONS

460

11.01
[279.8]

9.38
[238.3]
CENT.

7.24
[183.8]

6.43
[163.3]

9.59
[243.7] CENT.

2.82
[71.5] MAX.

1.20
[30.5]

4.77
[121.2]

1.35
[34.3]

3.70
[94.0]

3.97
[100.9] MAX.

8.00
[203.2] CENT.

.20 [5.2] DIA.
2 PLACES

2.20
[55.9] CENT.

2.25
[57.2]

.28 [7.1] DIA.
4 PLACES

3.75
[95.3] CENT.

DIMENSIONS IN BRACKETS ARE
IN MILLIMETERS. ALL OTHER
DIMENSIONS ARE IN INCHES.

460 Panel Mount

9.80
[248.9]

6.85
[174.0]

.25
[6.4]

3.32
[84.3] MAX.

.19 [4.8] MAX.
PANEL THICKNESS

DIMENSIONS CONTINUED FROM PREVIOUS PAGE

465

DIMENSIONS IN BRACKETS ARE IN MILLIMETERS. ALL OTHER DIMENSIONS ARE IN INCHES.

465 Panel Mount

6/09   460series_spec_ 500377.indd (C&D)
AWT35-500377