

SURVIVOR[®] 555HE

Hostile Environment Digital Weight Indicator



PART #	DESCRIPTION
19156	SURVIVOR 555HE

The SURVIVOR 555HE is a rugged industrial instrument that combines the features of the UMC555 with our environmentally protected SURVIVOR package. It's designed and proven to withstand some of the most hostile environments in the field.

The SURVIVOR 555HE is equipped with temperature compensation and RFI/EMI filtering to ensure peak performance in demanding applications. The advanced communications provide "real time" data generation in industrial environments.

For added flexibility, the SURVIVOR 555HE can be operated from an external DC power source.

Applications

- Straight weighing
- Corrosive environments
- Harsh washdown

Standard Features

- NEMA 4X Fiberglass-Reinforced Polyester (FRP) enclosure
- Rubber-booted SURVIVOR watertight switches
- Nylon watertight cable fittings
- High visibility, bright red 0.8" (20.3mm) Light Emitting Diode (LED) display
- Full digital front-panel calibration
- Excitation for eight 350Ω cells
- Full RFI/EMI filtering
- Two serial ports offering bidirectional RS-232 and simplex RS-232 or 20 mA current loop
- 115 VAC, 230 VAC available

Options/Accessories

- 19298 Internal thermostatically-controlled heater, maintains inner unit temperature to within recommended operating specifications
- 19576 BCD output
- 19341 Battery option
- 19578 Analog output, 0-10 VDC/4-20 mA
- 16819 Additional operating manual

LOAD CELL EXCITATION:

10 VDC, fixed, short-circuit proof

LOAD CELL CURRENT:

240 mA maximum (8 x 350Ω load cells)

LOAD CELL CABLING:

4-wire standard, 6-wire (remote sensing) with PC trace cuts

ANALOG SIGNAL INPUT RANGE:

0.7 mV/V - 2.0 mV/V, "high span"
1.7 mV/V - 3.2 mV/V, "low span"

ANALOG SENSITIVITY:

0.3 microvolts/graduation maximum

TRANSIENT OVERLOAD PROTECTION:

±100 VDC without damage, 100 microsecond duration at 2% duty cycle

CONVERSION RATE AT FULL SCALE:

10 updates per second, no averaging

INTEGRATION TIME:

20 millisecond, typical
17 millisecond, "low span"
28 millisecond, "high span"

DISPLAY RESOLUTION:

10,000 displayed graduations
100,000 internal graduations

FULL SCALE DISPLAY CAPACITY:

Selectable to: 500, 1000, 1500, 2000, 2500, 3000, 4000, 5000, 6000, 8000, 10,000

DISPLAY BLANKING:

Occurs at 103% of selected capacity

DISPLAY INCREMENTS:

1, 2, 5, 10, 20, 50, 100

UNDERRANGE BLANKING:

400 graduations, typical

OVER/UNDER CAPACITY ANNUNCIATION:

OL = overload, UL = underload

LEAD ZERO BLANKING:

Standard, per NIST H-44 requirements

DISPLAY:

Six-digit, red Light Emitting Diode (LED), 0.8" (20.3mm)

POLARITY INDICATION:

" - " sign

DECIMAL POINTS:

Selectable: 888888, 88888.8, 8888.88, 888.888, 88.8888, 8.88888, 888880, 888800

FRONT-PANEL CONTROL SWITCHES:

Zero, Gross/Net, Tare, Print

FRONT-PANEL ANNUNCIATORS:

Center Zero, Net, lb, kg, and Motion (red bar LEDs)

SERIAL OUTPUT:

Standard RS-232 bidirectional serial port; simplex RS-232 or 20 mA current loop

AZM (ZERO TRACK):

"Gross" mode only

AZM CAPTURE RANGE:

Selectable: "Off," ±0.5, ±1, ±3 graduations

AZM APERTURE:

Selectable: ±1.9% or 100% full scale

WEIGHT AVERAGING:

Fixed

MOTION BAND:

Selectable: ±1 or ±3 displayed graduations, 1 second delay

POWER INPUT:

115/230 VAC, 50/60 Hz or external DC

POWER CONSUMPTION:

15 watts typical

DISPLAY CHECK:

All digit segments and annunciators sequentially illuminated upon application of power

OPERATING TEMPERATURE:

14°F to 104°F (-10°C to 40°C)

RATING/MATERIAL:

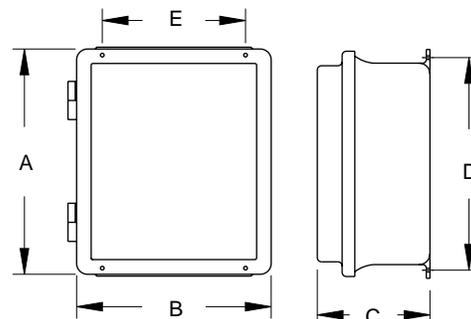
NEMA 4X wall mount, FRP

WEIGHT:

Approximately 13 lb (5.90 kg)

WARRANTY:

One year limited warranty



DIMENSIONS

A = 13.38" (339.8mm)	D = 12.75" (323.8mm)
B = 11.50" (292.1mm)	E = 8.00" (203.2mm)
C = 6.75" (171.4mm)	