Indicators/Remote Displays

SURVIVOR® 320HE & 390HE

Hostile Environment Digital Weight Indicators





Measurement Canada Approved

PART # DESCRIPTION

35826 115 VAC SURVIVOR 320HE **35827** 230 VAC SURVIVOR 320HE

From fertilizer and chemical scales to corrosive washdown environments, the SURVIVOR 320HE and SURVIVOR 390HE indicators provide the ideal solution for severe-duty industrial and agricultural applications.

In bright sunlight or black of night, the SURVIVOR 320HE can be read from up to 40 feet away! Remote key operation, selective switch disabling, and switch lockout limit operator access to only the controls required to run their operation, reducing costly errors.

The SURVIVOR 320HE and SURVIVOR 390HE have unparalleled response time from actual scale loading to display update. RATTLETRAP® vibration filtering makes this one of the most advanced special-purpose weight indicators available today.

A serial port drives printers, remote displays, computers, or other devices. A remote print key or serial print command allows printing from a remote print station, programmable controller, or host computer.

Applications

- · Straight weighing
- Corrosive environments
- Oil refineries
- Chemical processing plants
- · Wastewater treatment
- · Agricultural applications

Standard Features

- NEMA 4X Fiberglass-Reinforced Polyester (FRP) enclosure
- (320HE) Bright, bold backlit 2" Liquid Crystal Display (LCD)
- (390HE) Bright, bold 1" Liquid Crystal Display (LCD)
- Universal mounting tabs (replaceable)
- 50 updates/second typical (320HE)
- 30, 15, 7 1/2, 3 3/4 updates/second (390HE)
- Selectable display update rate
- · lb/kg switching
- 5-button operation
- · Selectable units
- One communication port, simplex, selectable RS-232 or 20 mA current loop
- RATTLETRAP® vibration control

Options/Accessories

30911 Additional mounting tabs





Approved

PART # DESCRIPTION

53517 115 VAC SURVIVOR 390HE

SURVIVOR 320HE & 390HE

EXCITATION VOLTAGE:

320HE: 10 ± 0.5 VDC, $6 \times 350\Omega$ load cells 390HE: 5 VDC, $4 \times 350\Omega$ load cells

LOAD CURRENT:

320HE: 175 mA maximum (6 x 350 $\!\Omega$ load cells) 390HE: 60 mA maximum (4 x 350 $\!\Omega$ load cells)

LOAD CELL CABLE REQUIREMENTS:

4-wire/6-wire selective with jumpers

ANALOG SIGNAL INPUT RANGE:

0.5 mV/V - 3.5 mV/V

ANALOG SIGNAL SENSITIVITY:

0.3 microvolts/graduations minimum

INPUT OVERLOAD PROTECTION:

± 12 volt continuous

MEASUREMENT RATE:

320HE: 50 updates/second, typical 390HE: 30, 15, 7 1/2, 3 3/4 updates/second

SYSTEM LINEARITY:

Within 0.01% of FS

RESOLUTION:

Internal: Approximately 1,000,000 graduations Display: Selectable up to 60,000 dd (320HE) Selectable up to 100,000 (390HE)

DISPLAY:

320HE: 2" (50.8mm) Liquid Crystal Display (LCD), with backlight

390HE: 1" (25.4mm) Liquid Crystal Display (LCD),

Decimal point available at each digit

LB/KG SWITCHING:

Front-panel switch

FRONT-PANEL CONTROL SWITCHES:

Zero, Net/Gross, Tare, Units, Print

STATUS ANNUNCIATORS:

Tare, entered tare, standstill, net, gross, center of zero, minus sign, lb, kg

FRONT-PANEL:

5-button rubber-booted SURVIVOR® watertight switches

SERIAL OUTPUT:

Printer port: RS-232 or 20 mA simplex, 8 data bits, no parity;

7 data bits, even parity; 7 data bits, odd parity

Baud rates: 19200, 9600, 4800, 2400, 1200

DIGITAL INPUTS:

2 inputs, TTL or switch closure, active low

DIGITAL FILTERING:

3 separately programmable digital filter parameters

DISPLAY FILTER:

Selectable from 250 mS to 4 sec

CALIBRATION METHOD:

Software

MOTION TIME SENSITIVITY:

Fixed at 1 second

POWER:

Line voltages: 115 or 230 VAC + 10%/-15%

Frequency: 50/60 Hz

Power consumption: 25W maximum

OPERATING TEMPERATURE:

14°F to 104°F (-10°C to 40°C)

RATING/MATERIAL:

NEMA 4X FRP

WEIGHT:

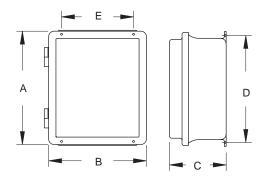
320HE = approximately 18 lb (8.2 kg) 390HE = approximately 17 lb (7.2 kg)

APPROVALS:

320HE: NTEP certified per H-44 at 10,000 Divisions, Class III/IIIL, CC# 91-132A3. Measurement Canada approved, AM-4838 390HE: NTEP certified per H-44 at 10,000 Divisions, Class III/IIIL, CC# 98-203A2. Measurement Canada approved, AM-5300

WARRANTY:

One year limited warranty



DIMENSIONS

SURVIVOR 320HE SURVIVOR 390HE

A = 14.50" (368.3mm) A = 10.50" (267mm) B = 12.50" (317.5mm) B = 8.50" (216mm) C = 8.28" (210.3mm) C = 6.00" (152mm) D = 14.94" (379.4mm) D = 10.00" (254mm) E = 10.00" (254.0mm) E = 8.00" (203mm)