

## ATS-1 Automated Truck Scale System



### DESCRIPTION

ATS-1 Automated Truck Scale System

The ATS-1 automated truck scale system allows for unattended outdoor truck scale terminal operation. The system features a Rice Lake NEMA 4 mild steel outdoor control station equipped with an IQ plus 810 weight indicator. Easy to set up, the ATS-1 provides formattable tickets and several options for gross vehicle weighing activation. The optional painted mild steel weather shroud protects the terminal from the elements.

### Applications

- Unattended gross vehicle weight
- Truck stops

### Standard Features

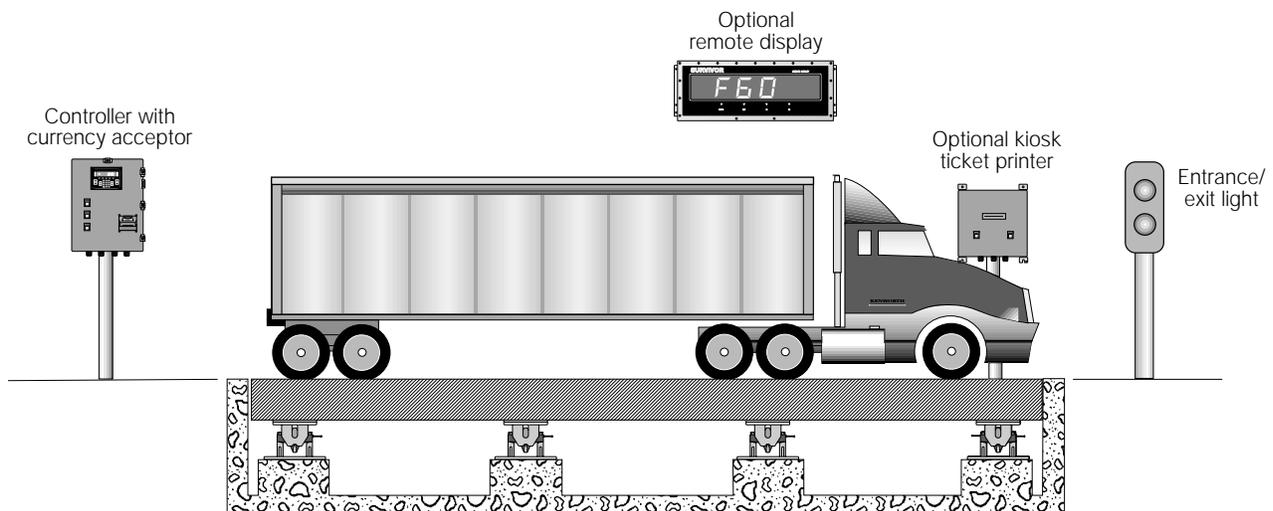
- Operator prompting
- Formattable tickets that print at the end of a transaction
- Traffic light control
- Transmits weight to remote display (only when activated)
- 115 VAC
- Currency acceptor (US currency only)

### Options/Accessories

- 43598 ..... SURVIVOR® IQ F15, 1.5" flip digit remote display, 115/230 VAC
- 40879 ..... SURVIVOR® IQ F40, 4.0" flip digit remote display, 115/230 VAC
- 40880 ..... SURVIVOR® IQ F60, 6.0" flip digit remote display, 115/230 VAC
- 36966 ..... Internal heater
- 21159 ..... Internal transient protection
- 23146 ..... Traffic light
- 49567 ..... Kiosk printer

#### Consult factory for these additional options:

- Stainless steel enclosure
- RF tags/antenna for truck IDs
- Bar code badge scanner
- 230 VAC
- Weather shroud
- Foreign currency acceptor



**LOAD CELL EXCITATION:**

10 ± 0.5 VDC, 32 x 700-ohm load cells

**LOAD CURRENT:**

115 mA maximum (8 700-ohm load cells)

**INTERCONNECTION CABLE REQUIREMENTS:**

6-wire selective (jumpers required on sense leads for 4-wire)

**ANALOG SIGNAL INPUT RANGE:**

0.6 mV/V - 3.9 mV/V

**ANALOG SIGNAL SENSITIVITY:**

0.3 microvolts/graduation minimum  
 Legal-for-trade recommended minimum 1 microvolt/graduation

**INPUT OVERLOAD:**

±12V continuous, static discharge protected

**CONVERSION RATE AT FULL SCALE:**

20/second, typical

**RESOLUTION:**

Selectable up to 999,000,000 displayed graduations  
 740,000 graduations internal

**DISPLAY INCREMENTS:**

1, 2, 5

**UNDERRANGE BLANKING:**

-2 mV signal nominal

**OVER/UNDER CAPACITY ANNUNCIATION:**

Overload displayed as: ...  
 Underload displayed as: ...

**LEAD ZERO BLANKING:**

Standard, per NIST H-44 requirements

**DISPLAY:**

9.0mm 4-line x 20-character alphanumeric blue/green VFD

**POLARITY INDICATION:**

" - " sign

**DECIMAL POINTS:**

8888888, 888888.8, 88888.88, 8888.888, 888.8888,  
 88.88888, 8.888888, 8888800, 8888880

**LB/KG SWITCHING:**

Front-panel push button

**FRONT-PANEL KEYPAD:**

Mylar with stainless steel dome switches

**FRONT-PANEL ANNUNCIATORS:**

Motion, Center of Zero, Units

**SERIAL OUTPUT:**

"Remote Display" port, simplex RS-232

**RELAY INPUTS:**

3 inputs

**RELAY OUTPUTS:**

16 outputs

**AZM APERTURE:**

±1.9% of selected full scale capacity or 100%, internal selectable

**DIGITAL FILTERING:**

Rattletrap

**MOTION BAND:**

1, 2, 3, 5, 10, 20, off

**MOTION TIME SENSITIVITY:**

Fixed at 1 second

**POWER:**

Line voltages: 115 VAC +10%/-15%, 230 VAC +10%-15%  
 Frequency: 50 or 60 Hz  
 Indicator Fusing: .1A TR5 Fastact fuse

**DISPLAY CHECK:**

All digit segments and annunciators simultaneously illuminated upon application of power

**OPERATING TEMPERATURE:**

14°F to 104°F (-10°C to 40°C)

**PACKAGING:**

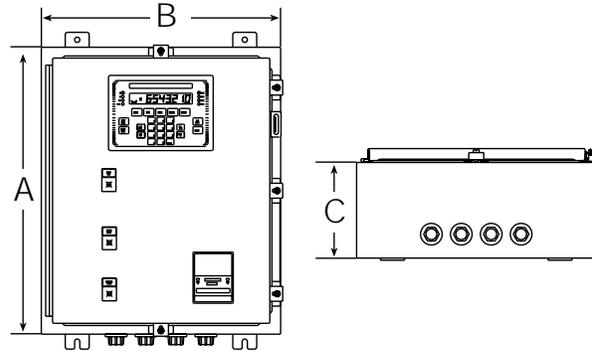
Enclosure: NEMA 4 painted mild steel  
 Weight: Approximately 40 lb (18 kg)

**APPROVALS:**

NTEP certified Class III/IIIL, CC# 98-158

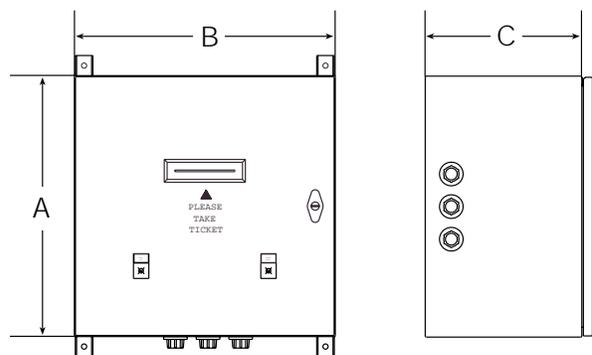
**WARRANTY:**

One year limited warranty



**INDICATOR BOX DIMENSIONS**

A = 20.00" (508mm)      C = 8.00" (203mm)  
 B = 16.00" (406mm)



**PRINTER BOX DIMENSIONS**

A = 20.00" (508mm)      C = 12.00" (mm)  
 B = 18.50" (mm)