

# AX900™



CLASS III CERTIFICATE  
#01-053A1

## AXLE SCALE SERIES

ISO 9001:2000  
Registered

Efficiency,  
cost effectiveness,  
reliability, durability  
and accuracy . . .  
These are just a few  
of the transportation  
industry's demands  
for weighing systems.

*Now, the AX900 axle scale series combines field proven technology, the most sought after features and widest range of sizes and capacities into one complete line of above and in-ground axle scale systems to stay ahead of these ever growing requirements.*

No other axle scale system offers more cutting edge technology to ensure vehicles can be check weighed in the most efficient and cost effective manner.

The AX900 series provides weigh bridges in a variety of lengths, capacities and configurations to weigh anything from single to multi-axle vehicles. The ruggedness and modular design of these systems make them ideal for locations where large permanent scale installations are not feasible.

One, two and three pairs of weigh bridges can be connected to the PT20 Axle Weigher CPU to display and print individual axle, axle groups and gross vehicle weights. Because the AX900 is the only scale that performs analog to digital conversion at the scale, all platforms and cables are 100% interchangeable for maximum reliability and ease of use.

For the most advanced and quickest weighing needs, vehicles can be weighed in motion when utilizing the optional AX20-WIM CPU. No longer does the vehicle have to be weighed in a series of static axle groups. Simply drive over the AX900 series scales for fast and easy weighing.

The AX900 series utilizes stainless steel, hermetically sealed shear beam load cells that are certified to 5,000 divisions by the U.S. *National Institute of Standards and Technologies* and by OIML, the worldwide equivalent. This is the highest available degree of certification for a commercial load cell. This design ensures unparalleled accuracy, increased longevity and drastically reduced down time.

Intercomp has provided this same type of technology to law enforcement agencies, manufacturers, trucking companies, militaries, and transportation industries throughout the world for quick, effective and dependable weight monitoring. Most importantly, these systems are sold, installed and serviced by over 400 Intercomp distributors throughout the world.

*The AX900 by Intercomp – once again proving no one else offers advanced weighing technology . . . by any measure.*



**Intercomp®**  
advanced weighing technology . . . by any measure

**AX900 Above-Ground Axle Scale**

- **Modular platform design.**
- **Perfect for high capacity, rugged weighing in a variety of locations.**
- **Exclusive digital output for clear signal and interchangeability with all components.**
- **Heavy-Duty aluminum or steel construction.**
- **Fully electronic load cells federally certified to 5,000 divisions.**
- **Designed for use in the widest range of environments.**
- **Quick set up and easy operation.**
- **32" wide bridges for fast, safe and accurate approach.**
- **Threaded holes for lifting eyes.**
- **Multiple lengths for variety of axle configurations.**

The AX900 Axle Scales are designed for portability. They allow you to weigh in a variety of areas and applications where stationary scales are not feasible. The scale can now be brought to the vehicle to maximize efficiency by reducing the time it takes to bring the truck to the scale.

The scales are moved and positioned via a forklift, trailer, hoist or winch. Simply off load and position the scales, connect them to the indicator and you are ready to weigh.

Deck lengths are available in 3.5, 5.5, 7, 7.5, 11, 12.5 and 14 feet/metric equivalents with total capacities ranging from 60,000 lb/30 Tons to 100,000 lb/50 Tons for determining axle group and gross weights. When needing to determine individual axle weight, axle group and gross weights, channel supports are added to provide lengths up to 14 feet and longer in capacities up to 120,000 lb/60 tons.

Standard capacity decks are easily approached and driven across due to the 3.6-inch, low-profile height and 32-inch width. Decks are available in either aluminum or steel depending upon required level of portability and area of use.

Ramps are easily secured to both ends, provided with hand holds for portability and of the most durable design to prevent deformation under continued stress.

All AX900 Axle Scales are interchangeable with Intercomp axle weigher indicators and accessories. Consult indicator options to determine most applicable model.

Heavy duty, tandem axle trailers with hydraulic tilt and dual winches allow for easy transport of these systems.



Portable Axle Scale with Ramps	Overall Platform Length	Width	Height	# of Supports	System Capacity	Axle Configuration	Material	Approximate Weight
<b>AX900-00</b> (1 Pair)	7 FT	32 IN	5.5 IN	N/A	60,000 lb (30 Ton)	Single/Tandem	Aluminum	795 lb/361 kg
<b>AX900-01</b> (1 Pair)	7 FT	32 IN	4.5 IN	N/A	100,000 lb (50 Ton)	Single/Tandem	Aluminum	995 lb/452 kg
<b>AX900-02</b> (2 Pair)	7 FT (4 - 3.5 FT)	32 IN	3.6 IN	One	60,000 lb (30 Ton)	Single/Tandem	Aluminum	1,090 lb/495 kg
<b>AX900-03</b> (1 Pair)	7 FT	32 IN	3.6 IN	N/A	60,000 lb (30 Ton)	Single/Tandem	Steel	1,550 lb/704 kg
<b>AX900-04</b> (2 Pair)	11 FT (4 - 5.5 FT)	32 IN	3.6 IN	One	80,000 lb (40 Ton)	Single/Tandem/Triple	Aluminum	1,320 lb/600 kg
<b>AX900-05</b> (2 Pair)	14 FT (4 - 7 FT)	32 IN	3.6 IN	One	60,000 lb (30 Ton)	Single/Tandem/Triple /Spread/Quad	Aluminum	1,700 lb/772 kg
<b>AX900-06</b> (2 Pair)	14 FT (4 - 7 FT)	32 IN	4.5 IN	One	100,000 lb (50 Ton)	Single/Tandem/Triple /Spread/Quad	Steel	3,550 lb/1,613 kg
<b>AX900-12</b> (1 Pair)	3.5 FT	32 IN	3.6 IN	N/A	60,000 lb (30 Ton)	Single	Steel	775 lb/352 kg
<b>AX900-13</b> (1 Pair)	3.5 FT	32 IN	3.6 IN	N/A	60,000 lb (30 Ton)	Single	Aluminum	500 lb/227 kg
<b>AX900-11</b> (1 Pair)	7 FT	32 IN	3.6 IN	N/A	60,000 lb (30 Ton)	Single/Tandem	Aluminum	750 lb/340 kg
Multi-Channel Axle Scale with Ramps	Overall Platform Length	Width	Height	# of Supports	System Capacity	Axle Configuration	Material	Approximate Weight
<b>AX900-07</b> (2 Pair - 2 Channel)	7 FT (4 - 3.5 FT)	32 IN	3.6 IN	One	60,000 lb (30 Ton)	Single/Tandem	Aluminum	1,160 lb/527 kg
<b>AX900-08</b> (3 Pair - 3 Channel)	11 FT (6 - 3.5 FT)	32 IN	3.6 IN	Two	120,000 lb (60 Ton)	Single/Tandem/Triple	Aluminum	1,550 lb/704 kg
<b>AX900-09</b> (3 Pair - 3 Channel)	12.5 FT (4 - 3.5, 2 - 5.5 FT)	32 IN	3.6 IN	Two	120,000 lb (60 Ton)	Single/Tandem /Triple/Spread	Aluminum	1,630 lb/740 kg

Custom platform sizes and capacities are available.

## AX920 In-Ground Axle Scale

- Cost effective alternative to large in ground truck scales.
- Fully electronic load cells federally certified to 5,000 divisions of accuracy.
- Heavy-duty aluminum or steel construction for maximum durability.
- All weather protection.
- Installation Kit for quick set up.
- Multiple lengths and widths for broad range of vehicles and weight capacities.
- Center of Balance Calculation.

The AX920 Axle Scales are designed to offer a low cost, efficient and effective alternative to traditional permanent in ground truck scales. They are perfect for truck terminals, highway pullovers, warehouses and distribution centers and are at least half the cost of truck scales.

No longer are lengthy and costly excavations required. No longer are you permanently fixed to the location of your truck scale. No longer do you need to worry about finding level ground or optimum environments to perform your routine weighing. The AX920 can be installed within a day, easily moved to another location and installed in virtually any environment.

As with the AX900 above ground series, lengths are available in 2.4, 7, 10, 12 and 14 feet/metric equivalents with capacities ranging from 50,000 lb/25 Tons to 100,000 lb/50 Tons for determining axle, axle group and gross weights. Most importantly, the AX920 can be configured to almost any width covering a wider range of vehicles and area to improve flexibility and ease of use.

Models constructed from aluminum or steel provide tremendous durability while the hermetically sealed load cells ensure operation in almost every possible environmental condition. All systems are shipped with our exclusive installation kit to enable the most inexperienced user to quickly and efficiently complete installation.

All AX920 Axle Scales are interchangeable with Intercomp axle weigher indicators and accessories. Consult indicator options to determine most applicable model. Model AX920-06 WIM Axle Scale and AX20-WIM CPU are OIML Class III and IIII approved.

**Site conditions for Weigh-In-Motion axle scales must meet or exceed those specified in ASTM E1318-00.**



AX920 In-Ground Axle Scale



AX920 In-Ground W.I.M. Scale

In-Ground Axle Scale	Overall Platform Length	Width	Height	Pit Frame/Kit	System Capacity	Axle Configuration	Material	Approximate Weight
<b>AX920-00P</b> (1 Pair)	7 FT	32 IN	3.6 IN	Yes	60,000 lb (30 Ton)	Single/Tandem	Aluminum	430 lb/195 kg
<b>AX920-01P</b> (1 Pair)	7 FT	32 IN	4.5 IN	Yes	100,000 lb (50 Ton)	Single/Tandem	Aluminum	528 lb/264 kg
<b>AX920-02P</b> (1 Pair)	7 FT	32 IN	3.6 IN	Yes	60,000 lb (30 Ton)	Single/Tandem	Steel	925 lb/420 kg
<b>AX920-03P</b> (1 Pair)	12 FT	32 IN	3.6 IN	Yes	80,000 lb (40 Ton)	Single/Tandem /Triple/Spread	Steel	1,563 lb/710 kg
<b>AX920-04P</b> (2 Pair)	14 FT (4 - 7 FT)	32 IN	3.6 IN	Yes	80,000 lb (40 Ton)	Single/Tandem /Triple/Spread/Quad	Steel	1,850 lb/841 kg
<b>AX920-05P</b>	10 FT	10 FT	9.0 IN	Yes	60,000 lb (30 Ton)	Single/Tandem/Triple	Steel	2,110 lb/959 kg
In-Ground Weigh In Motion Axle Scale	Overall Platform Length	Width	Height	Pit Frame/Kit	System Capacity	Axle Configuration	Material	Approximate Weight
<b>AX920-06WIM*</b>	2.4 FT	9.85 FT	9.0 IN	Yes	50,000 lb (25 Ton)	Single	Steel	1,895 lb/959 kg
<b>AX920-13WIM</b>	2.4 FT	13 FT	13.0 IN	Yes	50,000 lb (25 Ton)	Single	Steel	2,495 lb/1135 kg

Custom platform sizes and capacities are available.

\*OIML Approved



## Axle Weigher Indicators

**PT20 AXLE WEIGHER CPU:** The key to the PT20 CPU is its ability to read a digital signal from the AX900 series axle scales. With digital load cells, the calibration is held within the axle scale and not at the CPU. This enables total interchangeability of all scales, interconnect cables and CPU channels. Any **Intercomp** axle scale can be connected to any interconnect cable and to any CPU channel. This eliminates the use of the color coded connecting method thereby granting improved ease of use and flexibility in the set up and operation phase.

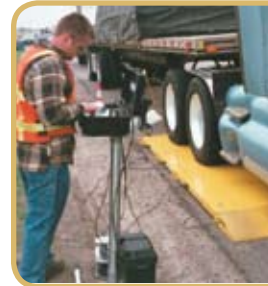
If an axle scale, interconnect cable or CPU becomes damaged, you simply replace that part with a readily available spare. *There is no need to return the entire system for repair* thus threatening the loss of the system or the incursion of long turn around times.

The PT20 CPU truly separates the AX900 series from all others. The CPU will simultaneously display individual axle, axle group and total weight on the jumbo sized LCD screen – no toggling of channels is necessary. The CPU will also store weights in memory, automatically compute center of gravity and deliver all measurements and weights on the self contained printer.

- Interchangeable with any interconnect cable and scale for greater flexibility.
- Interfaces to digital output scales for stronger more accurate signals.
- 4x20 line alphanumeric display enables simultaneous viewing of all weigh bridges.
- Back light and screen contrast for ultra high visibility.
- Displays & Prints individual axle, axle group and total weight.
- Memory registers to store data.
- Computes center of gravity.
- AC/DC operation using rechargeable commercially available batteries.
- Alphanumeric keypad entry of data including fields for vehicle ID, operator and serial number.
- Compact and lightweight for total portability.
- Waterproof case.



Digital Input



```
STATION: 1
TICKET# 78
4:01:18PM
MAY 23, 2003

119501b 6 CH 1
001b 6 CH 2
001b 6 CH 3
119501b 6 GRP 1

161501b 6 CH 1
171501b 6 CH 2
001b 6 CH 3
333001b 6 GRP 2

169001b 6 CH 1
167501b 6 CH 2
001b 6 CH 3
336501b 6 GRP 3

789001b 6 TOTAL
```

Multi-Channel Printout



AX20-WIM



AX20A-WIM

**AX20-WIM CPU:** For the first time in axle weighing technology, vehicles can be weighed in a dynamic in-motion fashion. And the AX20-WIM CPU makes it all possible. This indicator prevents the need for vehicles to stop and weigh in a static mode. Weighing at speeds of up to 10 mph enables a greater number of vehicles to cross the scales thereby improving efficiency and dispatch.

The CPU has a high visibility 5 digit Electro-mechanical display, 0-9 numeric data entry keyboard, real time clock and fault diagnostic display.

The CPU includes WIM software which provides fleet and weight management data and can be tailored to meet specific fleet configurations. Complete reports can be transmitted to a PC or printer via the RS232 output.

- Enables weigh in motion at speeds up to 10 mph.
- Compact, portable terminal.
- High visibility 5 digit weight display.
- Data entry keypad.
- Selectable software and indicator options enabling data entry for Vehicle ID, Code No., Product, Supplier, Vehicle Reg. No., Vehicle Type, Goods Carried and corresponding weights. (AX20A-WIM)
- Fault diagnostic display.
- OIML Class III and IIII approved.
- Multiple site data collection.

### GROSS NET TARE TICKETS

Inbound	Outbound																								
<p>Intercomp</p> <p>Date: 21/01/99 Time: 13:39</p> <p>Transaction No: 0004</p> <p>ID Number: N150 TGF</p> <p>Vehicle Type: V13</p> <p>Code Number: C183</p> <p>Operator: CENTRAL</p> <p>Hauler: MAMBLE</p> <p>Supplier: METRO</p> <p>Product: EMPTY</p> <table> <tr> <th>Found</th><th>Permitted</th></tr> <tr> <td>Axle 1: 2600</td><td>( 8500)</td></tr> <tr> <td>Axle 2: 2700</td><td>(11000)</td></tr> <tr> <td>Axle 3: 2100</td><td>( 9000)</td></tr> <tr> <td>Axle 4: 2110</td><td>( 9000)</td></tr> <tr> <td>Axle 5: 2120</td><td>( 9000)</td></tr> </table> <p>Gross: 12630 ( 38000)</p>	Found	Permitted	Axle 1: 2600	( 8500)	Axle 2: 2700	(11000)	Axle 3: 2100	( 9000)	Axle 4: 2110	( 9000)	Axle 5: 2120	( 9000)	<p>Intercomp</p> <p>Date: 21/01/99 Time: 14:01</p> <p>Transaction No: 0005</p> <p>ID Number: N150 TGF</p> <p>Vehicle Type: V13</p> <p>Code Number: C3</p> <p>Operator: CENTRAL</p> <p>Hauler: MAMBLE</p> <p>Supplier: METRO</p> <p>Product: STONE</p> <table> <tr> <th>Found</th><th>Permitted</th></tr> <tr> <td>Axle 1: 5000</td><td>( 8500)</td></tr> <tr> <td>Axle 2: 10500</td><td>(11000)</td></tr> <tr> <td>Axle 3: 8100</td><td>( 9000)</td></tr> <tr> <td>Axle 4: 7500</td><td>( 9000)</td></tr> <tr> <td>Axle 5: 7910</td><td>( 9000)</td></tr> </table> <p>Gross: 39990 ( 39000) Overload</p> <p>WEIGHT1: 12630 (lb)</p> <p>WEIGHT2: 39990 (lb)</p> <p>NET OUT: 27360 (lb)</p>	Found	Permitted	Axle 1: 5000	( 8500)	Axle 2: 10500	(11000)	Axle 3: 8100	( 9000)	Axle 4: 7500	( 9000)	Axle 5: 7910	( 9000)
Found	Permitted																								
Axle 1: 2600	( 8500)																								
Axle 2: 2700	(11000)																								
Axle 3: 2100	( 9000)																								
Axle 4: 2110	( 9000)																								
Axle 5: 2120	( 9000)																								
Found	Permitted																								
Axle 1: 5000	( 8500)																								
Axle 2: 10500	(11000)																								
Axle 3: 8100	( 9000)																								
Axle 4: 7500	( 9000)																								
Axle 5: 7910	( 9000)																								

## Axle Weigher Indicators (continued)

**AX900™**

Digital Input

**GP 1000/1200****COMPACT BATTERY-OPERATED DIGITAL WEIGHT INDICATOR**

*Low cost, power efficient indicator incorporates the most sophisticated A/D and CMOS technology available today!*

- 20 Bit A/D Converter
- Jumbo LCD Display
- Gross/Net/Tare
- Digital Input
- Alkaline or Ni-Cad Battery Powered
- Low Power CMOS Design
- RS232/RS485 Output
- Full Keypad Setup & Calibration
- Proven Design & Reliability



Digital Input

**GP 2000EM****COMBINATION DIGITAL WEIGHT INDICATOR**

*Advanced design combines the industry's first affordable Digital Weight Indicator and Remote Display.*

- 20 Bit A/D Converter
- Gross/Net/Tare
- Compact Design
- Competitively Priced
- Digital Input
- Combination Indicator/Remote Display
- 4 inch/100 mm High Electro Mechanical Display
- RS232 Output
- Full Keypad Setup & Calibration
- Proven Design & Reliability

**Accessories**

- Outdoor Displays
- Stop Lights
- Printers
- Remote Frequency Data Transmission
- Trailer
- Bar Code Scanning
- Optical Bar Code Scanning
- Law Enforcement & Fleet Management Software
- Vehicle Profiling
- Automatic Vehicle Identification
- Multiple Site Data Collection

*Intercomp provides the necessary accessories to complete and complement your system and guarantee weighings are done quickly and efficiently.*



The **S400HI Outdoor Display** enables readings to be taken at distances up to 225 feet / 75 meters in pouring rain, bright sun, pitch dark, inside or out. This display features light emitting diodes (LED's) which can withstand temperatures ranging from -50 to 120 F. There are no bulbs to burn out or shutters to malfunction. It is NEMA 4X / IP 65 rated with a moisture tight encasement for use virtually anywhere.

No system would be complete without **AX-SL Stop Lights** to guide the vehicle up, on and off the weigh bridges. These indicators can be cabled directly to either CPU at distances of 150 feet / 50 meters and eliminate the need for an individual to stand outside near the scales to direct traffic.

Today's advancements enable us to use the latest in **AX-RF Remote Frequency** technology thereby eliminating the dependency on cables. Wireless remote communication to a CPU eliminates the potential hazard caused by spliced, ripped and damaged cables. This cable free connection is ideal for portable applications and remote scale stations. An RF modem is available and capable of down loading information for centralized data collection.

As systems become more organized in the way data is coded, gathered and stored, we offer the **AX-BC Bar Code** collection device. This enables total inventory management as a vehicle's identity and relevant information can be individually identified and encrypted into a data base. This information can then be later referenced for inventory control and management purposes.

**No other manufacturer offers a wider array of axle scales, indicators and accessories combining the most sought after features with today's latest technology. Intercomp is your one stop manufacturer for all weighing needs. We are recognized world wide as the industry leader in providing portable weighing solutions for the transportation industry.**

*Contact us today to learn how we can provide you with advanced weighing technology . . . by any measure.*





3839 County Road 116  
Medina, Minnesota 55340 U.S.A.

All Rights Reserved

**Toll Free: 800-328-3336**

Worldwide: 763/476-2531

Fax: 763/476-2613

**[intercompcompany.com](http://intercompcompany.com)**

**E-mail: [info@intercompcompany.com](mailto:info@intercompcompany.com)**



AX900, AX920, AX20, PT20, GP1000 and GP2000 are trademarks of Intercomp.  
Specifications are subject to change without notice.



ISO 9001:2000  
Registered

