

# FAIRBANKS<sup>®</sup>

## S C A L E S



### A.A.R. COMBO

FULLY-ELECTRONIC PIT-TYPE RAIL AND TRUCK SCALES

Heavy-duty A.A.R. compliant and NTEP approved scale designed to weigh rail cars and highway vehicles.

# A.A.R. COMBO

## FULLY-ELECTRONIC PIT-TYPE RAIL AND TRUCK SCALES

*Ideal scale for applications that require rail car and highway vehicle weighing.*

With more than 180 years experience in the design and manufacture of top-rated weighing equipment, Fairbanks knows what it takes to build world-class rail scales and truck scales. Facilities in the aggregate, mining and agriculture industries that require both types of vehicle weighing for daily operations can benefit from Fairbanks dual-use A.A.R. Combo Scale.

This fully-electronic, pit-type scale meets or exceeds all structural, sectional and accuracy requirements of the American Association of Railroads and Cooper E80 ratings. This scale is also NTEP approved for legal-for-trade highway vehicles. Meeting these ratings ensures that the heaviest cars,



## COOPER E80

locomotives and truck loads can pass directly over the scale with complete safety.

Fairbanks understands the demands of rugged rail and truck applications, as well as what it takes to keep businesses operational over the long haul. Durability, dependability, reliability and accuracy are not just words, they are the standards by which Fairbanks products are created.



*With rigid checking, the A.A.R. Combo scale platform remains stable. This stability reduces component wear and the time necessary to capture accurate weight data.*

### PROTECTIVE CHECKING SYSTEM

Fairbanks' protective checking system minimizes any movement of the weighbridge, even under the heaviest locomotive traffic. The friction-free horizontal check bar design prevents any lateral movement so that your load cells and scale structure remain protected. Since there are no moving parts, friction and wear are eliminated and the scale is stable, ready to react with quick weight data.



For thousands of customers worldwide, Fairbanks' A.A.R. Combo track and truck scale design provides maximum uptime, minimizing cost of ownership.

### INTALOGIX® TECHNOLOGY

Real world problems, such as lightning, can wreak havoc on your scale. Fairbanks has developed an industry-leading technology, Intalogix®, to protect your scale from mother nature. Intalogix is a standard feature of your A.A.R. Railroad Track Scale.

In addition to the highest level of protection against lightning strikes and power surges, Intalogix has the capability to digitally isolate individual load cells so the operator will be immediately notified of any problem, enabling fast analysis by an on-site technician or via ethernet connection with some Fairbanks instruments.







## STRONGEST WEIGHBRIDGE AND WEIGHING PLATFORM CONSTRUCTION IN THE INDUSTRY

For heavy capacity rail, it is not enough to provide a solid weighbridge. The capability to operate with maximum uptime demands a solid and stable weighing platform.

Fairbanks uses massive structural wide-flange I-beam main girders and cross members to construct a platform that can carry the heaviest rail cars, locomotives or truck loads. Recessed rails bear directly on the main girders to ensure a solid platform for proper weight distribution.

## DURABLE FOUNDATION

Certified, engineered foundation designs detail the requirements necessary for structurally sound, safe and durable foundations. Reinforcing steel, soil bearing pressures, pit entrances and adequate drainage are incorporated to ensure proper pit foundation construction, use and long life.

- Straight wall pit design saves valuable time and money during construction.
- Integrated safety piers meet A.A.R. requirements.
- Sump accommodations are incorporated to meet special drainage needs.



*With 50 tons of structural steel and massive concrete piers, the A.A.R. Combo Scale's reinforced concrete deck with recessed rails is built to handle both rail car and truck loads.*

## ACCURATE, RELIABLE LOAD CELLS

Delivering reliable, accurate weighments under the extraordinary mass of rail traffic can be challenging for even the most robust load cells. Unique challenges such as eccentric loading, load cell movement and premature wear, impact the reliability and accuracy of your scale. Fairbanks has overcome these challenges with massive multi-column load cells integrated into a unique flexural mounting assembly.



These load cells have an all-stainless steel, multi-column compression design, 200,000 pound capacity, and 400 percent ultimate overload protection.

The load cells are engineered with a four compression column interior that provides a stable sensing platform immune to errors caused by eccentric loading. A flexural mounting assembly protects each load cell over time in three ways. First, the assembly isolates the load cell from any side-to-side movement, thus reducing wear. Second, these assemblies maintain the vertical orientation under all loading conditions. Third, the effects of thermal expansion and contraction that can impact accuracy are eliminated.

With FM approved load cells as standard equipment, the Fairbanks A.A.R. rail scale is ready for duty, even in areas that require intrinsically safe equipment.



# A.A.R. COMBO

## FULLY-ELECTRONIC PIT-TYPE RAIL AND TRUCK SCALES

Weighing Solutions for the World Since 1830

Fairbanks.com

### SPECIFICATIONS

Sectional capacity . . . . . 180 tons

Platform sizes

Width . . . . . 10'

Lengths . . . . . 60', 66', 70', 72' and 80'

Number of sections . . . . . 4

Gross rated capacity . . . . . 360 tons

Load cell data:

Capacity . . . . . 200,000 lbs

Type . . . . . Multi-column compression

Material . . . . . Stainless steel

Overload protection . . . . . 300%

Output . . . . . 2.0 mV/V

Approvals . . . . . Factory Mutual

Approaches . . . . . 25' minimum concrete, each end

Design rating . . . . . Cooper E-80 loading

Accessories . . . . . Approach rail bolts, approach rail plates, approach rail clips, 115 lb approach rail, anti-creep device, grain dump, ticket and report printers, traffic signals, remote displays, scale instruments

Approvals . . . . . NTEP CC# 92-186, MC# AM-4954,  
Meets or exceeds all structural, sectional and accuracy requirements of the A.A.R.

### ACCESSORIES

Scale Instruments



Traffic Signals



Remote Displays



Ticket printers



Your Fairbanks Scales Authorized Representative is:

Call toll-free for the representative nearest you:

**(800) 451-4107**

Call between 8:00 a.m. – 5:00 p.m. Central Time

Corporate Headquarters: 6800 W. 64th Street, Overland Park, Kansas 66202

(816) 471-0231 Internet Address: <http://www.Fairbanks.com>

