

# FAIRBANKS®

## 2000 SERIES AND FULLY ELECTRONIC RAILROAD TRACK SCALES



**Fairbanks' full line of  
railroad track scales  
offers a solution for every  
application within a wide  
range of capacities.**



# FAIRBANKS®

## 2000 SERIES AND FULLY ELECTRONIC RAILROAD TRACK SCALES

Fairbanks' heavy-duty railroad track scales are safe, dependable and built to last. Meeting all the specific requirements of the Association of American Railroads and National Institute of Standards and Technology Handbook 44, these track scales provide the operator with accurate results, cost-effective installation and optimal use. The weighbridges are designed to meet Cooper E-80 ratings. The instrumentation for all of Fairbanks' track scales can handle a variety of applications, ranging from standard reporting capabilities to sophisticated data tracking.

### 2000 SERIES TRACK SCALES

The 2000 Series track scale is designed to minimize the length of scale needed to weigh rail cars. The scale modules are optimized to the appropriate length and then located only where they need to be — under the trucks of the rail car.

#### *Cost-effective installation*

The low profile 2000 Series rail scale combats high pit construction costs yet still maintains standard rail scale configurations. With an end wall height of only 1'-6.5" and easy access to load cells and electronics, the 2000 Series rail scale has eliminated the need for pit construction, yet still suits customer needs. As a result of its above ground design, maintenance is minimized and track downtime is held to a minimum.

#### *Advanced modular construction*

Incorporating a low profile design allows the rail to ride on the main girders, rather than on cross members that have unsupported rail between them like some competing rail scale systems. The modular style decks are fully covered with removable steel plates for safety and to ensure that

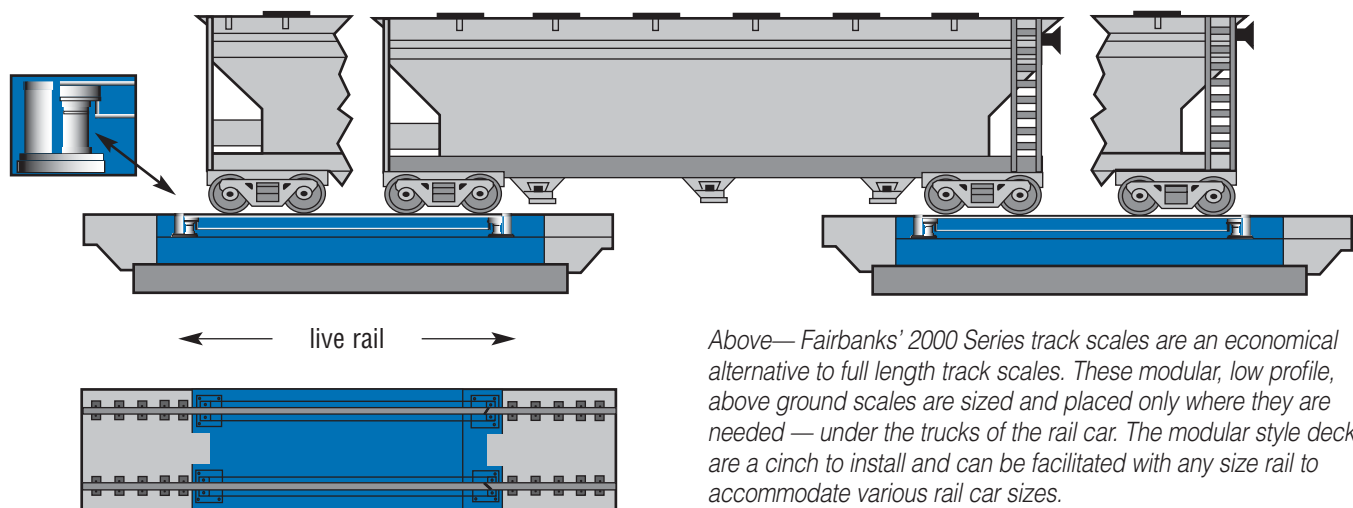


load cells and electronics are fully protected. A two-coat, epoxy paint system covers and protects the modules from daily wear and tear caused by the environment and typical use.

#### *Quick and easy installation— virtually maintenance free performance*

Only a minimal size crane is needed to set the scale due to the high strength to weight ratio of the modules. Once modules are set and grout cures, the scale is ready to be calibrated and put into service. In an above ground foundation, the 2000 Series rail scale utilizes gravity to remove moisture from the scale. With no sump pumps or other potential water intrusion problems, your foundation becomes virtually maintenance free.

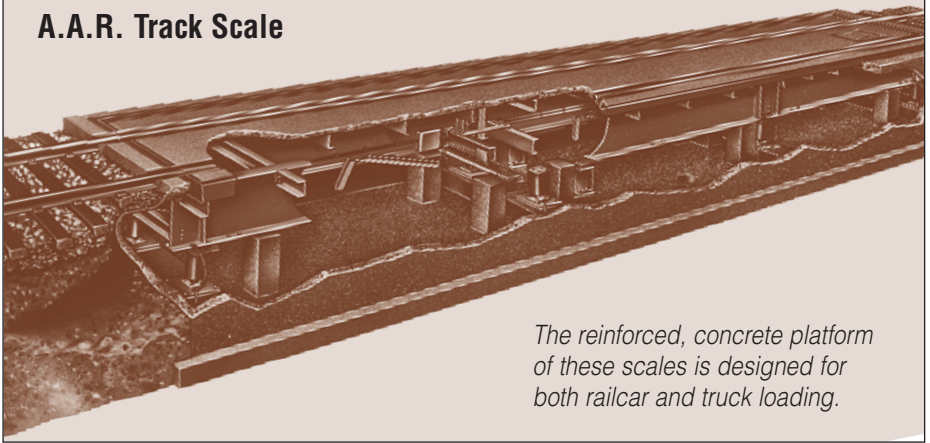
### 2000 Series Railroad Track Scale



Above— Fairbanks' 2000 Series track scales are an economical alternative to full length track scales. These modular, low profile, above ground scales are sized and placed only where they are needed — under the trucks of the rail car. The modular style decks are a cinch to install and can be facilitated with any size rail to accommodate various rail car sizes.

The 2000 Series track scale utilizes the proven design of a 100K rocker column load cell (below). This cell is truly hermetically sealed and constructed of 100 percent stainless steel. The entire load cell cable is protected with a stainless steel jacket that guards against rodent damage and outside signal interference and protects the cable when it's pulled through conduit.

## A.A.R. Track Scale



The reinforced, concrete platform of these scales is designed for both railcar and truck loading.



### *No moving parts*

The horizontal check bar design of these railroad track scales prevents any lateral movement of the platform without offering any resistance to the vertical load cell compression. The friction-free design means reduced wear and tear on the scale and decreased maintenance costs.

### *Intrinsically safe*

Fairbanks New 2000 Series railroad track scale features Factory Mutual approved, rocker column load cells. When the 2000 Series or A.A.R. Fully Electronic Track Scale is combined with Fairbanks Scales Intrinsically Safe Intalogix technology, it produces an unparalleled scale for hazardous applications.

## FULLY ELECTRONIC A.A.R. TRACK SCALES

These full size, fully electronic, pit-type railroad track scales meet or exceed all structural, sectional and accuracy requirements of A.A.R. This ensures that even the heaviest cars, as well as locomotives, can pass directly over the scale with complete safety. And the straight wall pit design simplifies construction, saving both valuable time and money.

### *Protective checking system*

The fixed mounted checking minimizes movement of the weighbridge, even under the heaviest locomotive traffic. The checking system also prevents any damaging side-to-side movements, so your load cells and the track scale's structure remain protected and intact.

### *Dual purpose design*

The reinforced concrete deck platform of these scales has been designed for both rail car and truck loading. The recessed rails support the rail car traffic, while the reinforced concrete deck allows for the accurate weighing of trucks.



The Fully Electronic A.A.R. track scale uses a durable, all-stainless steel monolithic canister load cell. With its stainless steel, multi-column compression design, this load cell offers a 300% overload capacity.

### *Durable load cells*

Designed to handle the punishing demands of the railroad industry, Fairbanks' Fully Electronic A.A.R. railroad track scales use an all-stainless steel, multi-column compression design. With a 200,000-pound capacity and 300 percent overload protection, these load cells offer many years of dependable and reliable service.

## INTALOGIX TECHNOLOGY

### *Isolated load cells*

Digitally isolated load cells enable direct communication between each cell and the scale's instrumentation, producing greater accuracy and reliability.

### *Optically Isolated Load Cells*

By optically isolating the load cells in the 2000 Series system, Intalogix technology provides a barrier of protection against surges unlike anything else in the scale industry. This helps ensure that the scale you purchase is fully operational when you need it.

### *Informative error messages*

Should a problem occur, the instrument will alert the operator and if needed instruct the operator of a number to call for service.

### *Load cell diagnostics*

Intalogix Technology not only tells you when you have a problem, it tells you where the problem is located.

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## 2000 SERIES AND FULLY ELECTRONIC RAILROAD TRACK SCALES

### SPECIFICATIONS

#### Specifications for 2000 Series Track Scales:

Model Number . . . . . 2000  
Platform Sizes and Capacities . . . . . Single Module (12'-6') 85 Tons  
Double Module (25') 170 Tons  
Sectional Capacity . . . . . 85 tons per section  
Load Cell Data:  
Load Cell Capacity . . . 110K  
Load Cell Protection . . Stainless steel,  
hermetically sealed  
Load Cell Resistance . 1,000 ohms  
Load Cell Output . . . . 2mV/V  
Approvals . . . . . NTEP CC# 01-016;  
MC AM-4954

#### Specifications for Fully Electronic A.A.R. Track Scales:

Model Numbers . . . . . 12-1492, 12-1493, 12-1494,  
12-1495, 12-1496  
Platform Sizes . . . . . 12-1492 model = 60 ft x 10 ft  
12-1493 model = 66 ft x 10 ft  
12-1494 model = 70 ft x 10 ft  
12-1495 model = 72 ft x 10 ft  
12-1495 model = 80 ft x 10 ft  
Gross Rated Capacity . . . 360 tons  
Sectional Capacity . . . . . 180 tons  
Load Cell Capacity . . . . . 200K  
Load Cell  
Overload Protection . . . . 300%  
Number of Sections . . . . . 4  
Approvals . . . . . NTEP CC# 92-186  
MC AM-4954



### INTALOGIX® TECHNOLOGY

Every Fairbanks railroad track scale features state-of-the-art Intalogix Technology. Since these scales are often prone to damage caused by lightning or power surges, Fairbanks' exclusive Intalogix Technology provides the highest level of protection available

or electronic scales. Intalogix also has the capability to digitally isolate each individual load cell, so the operator will be immediately notified of any problem, allowing fast analyzation by an on-site technician or by phone modem.

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 Offices: 821 Locust • Kansas City, MO 64106 • (816) 471-0231

Internet Address: <http://www.Fairbanks.com>

