

Field Inspection Manual	Part: 2 - IPO	Section: 12	Page: 1 of 2
Non Automatic Weighing Devices	Issued: 2004-03-01	Revision Number: Original	

TYPE 10.10 10.20 RAILWAY TRACK SCALES

APPLICATION

Mechanical or electronic railway track scales, and combination railway track/vehicle scales

EQUIPMENT

Inspector's weight kit, at least one certified railway test car, local standards and suitable strain loads.

NOTE: When performing an initial inspection, refer to the Bulletin M-5 for the minimum amount of standards.

USE

Device is approved for trade use NoA, Act Section 8
 Device is suitable for the actual use STP-1
 Device has been initially inspected (if applicable) and bears the initial verification marks R-29
 Device is sealed NoA, STP-4

VISUAL EXAMINATION - INSTALLATION AND LOCATION STP-7

Device is installed in accordance with restrictions and conditions listed in the notice of approval and in accordance with manufacturer's instructions
 Device is permanently installed on adequate foundations
 Installation provide access to understructure of main elements (pit entrance)
 Adequate approach and departure ends
 Local standards and test equipment can be brought to the device and used for inspection
 Device indicating and load receiving elements are positioned for customer's view (if applicable)
 Load receiving element can be observed from indicator's reading position
 Clearance around load receptor
 Installation of load cells, levers are adequate
 Device is adequately protected

VISUAL EXAMINATION - MARKING STP-3

Device is marked with the required information
 Marking is located as required
 Marking is permanent (if applicable)
 Marking plate is permanently attached to the device

VISUAL EXAMINATION - INDICATING ELEMENT STP-5

(Electronic)
 Display Test (Segment)
 Indicated and recorded values are adequately defined
 Defining words and symbols for annunciators (Tare Entered, Gross and Net Weight, Center-of-Zero) are readable

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(Mechanical)
 Scale marks, pointers and poise are in good condition
 Defining words and symbols are readable
 Zero setting material is enclosed and secured
 Balancing ball is in good condition and secured in place

VISUAL EXAMINATION - RECORDING ELEMENT (PRINTER) STP-6

Device prints the required values
 Printed values are adequately defined

DEVICE CONFIGURATION (ELECTRONIC)

Device configured as prescribed by the NOA STP-2

Zero Setting Mechanism Range (4% of Max or more) STP-8

*Initial Zero Setting Mechanism Range (20% of Max or more)

AZTM Maximum Range (0.6 e)

*Manual Entries of Gross Weights STP-9

*Sleep Mode Test STP-10

Tare (Platter, Keyboard, and Pre-programmed Tare Entry) STP-11

Free Floating Weight Signal STP-12

PERFORMANCE

Load Discrimination Test (Near Zero) STP-14

Increasing Test (Strain Test) STP-13

Eccentricity Test STP-15

Load Discrimination (Max) STP-14

Agreement of Registration STP-17

Display Blanking Tests (Zero, Tare) STP-18

Decreasing and Return-to-Zero Test STP-13

Repeatability Test STP-16

Motion Detection Test STP-19

Mathematical Concordance of Tare, Net and Gross Weight STP-21

Disturbance Test (Electromagnetic Interference and Radio Frequency Interference, Vibrations) . . STP-23

NOTE: Tests marked with the star * are performed at the initial inspection only.

WEIGH-IN/WEIGH-OUT SYSTEMS STP-24

WEIGHING SYSTEMS WITH MULTIPLE WEIGHING ELEMENTS STP-26

REVISION

Original document