



RF Conveyor Belt Scale

Model CS 1000RF

**Digital/Wireless control for
the most cost-efficient belt scale
system to meet today's crushing
and processing industry demands**



SCITRONICS

CS 1000RF—a superior scale from every point of view

Readability

The 4-line, 20 character liquid crystal display is easily read, even in low light conditions. Along with displaying total, rate and belt speed, the fourth line can be programmed to display conveyor or product ID, real time clock and conveyor angle.

Versatility

A multiple interface network allows connection of the DSP 1000 digital signal processor to multiple carriages. The low-profile carriage design accommodates tight belt clearance situations. Three types of speed sensors are available to comply with various belt configurations. Weight signals from the scale are processed and values displayed for rate, total tons and belt speed in selectable standard engineering units (tons, pounds, tonnes or kilograms). The system can be factory programmed to display customer-requested data. An optional printer or computer interface plug-in PC board is available.

Accuracy

SciTronics' Digital Signal Processor utilizes state-of-the-art electronics. The precision NTEP-approved strain gauge load cell accurately weighs the material being conveyed. The weight signal is converted into a digital computer signal in the bridge transducer signal conditioner and transmitted to the digital signal processor. Values are displayed with an accuracy of $\pm 0.5\%$. * Full-time self-diagnosis constantly evaluate performance to ensure precise operation at all times.

Maintainability

Every CS 1000RF system component is designed and engineered to withstand the rigors of real use conditions. Carriage surfaces are shaped to minimize product buildup areas — and contribute to trouble-free operation.

* on approved applications



"NTEP" approved strain gauge load cell access cover

11/16" bolt mounting holes (4)

Durability

The rugged carriage, manufactured to CEMA Dimensional standards, is constructed of heavy-duty steel, formed and welded for maximum strength and dimensional stability. When installed, the rigid carriage assembly adds strength to the conveyor frame and ensures permanent alignment. We are so confident in our quality, each unit is backed with a three year parts and labor warranty protection from manufacturing defects.

Ease of Initial Setup and Use

Calibration is simple and fast. After programming the processor with on site parameters (idler spacing, belt length, etc.), calibration is performed by "Zeroing" the belt using the auto zero key and then "E cal." using the test/cal. key. Material testing or test weights is also an option.

**Optional Feed Rate Controllers
and Load Controllers are
available for the CS 1000RF System.**

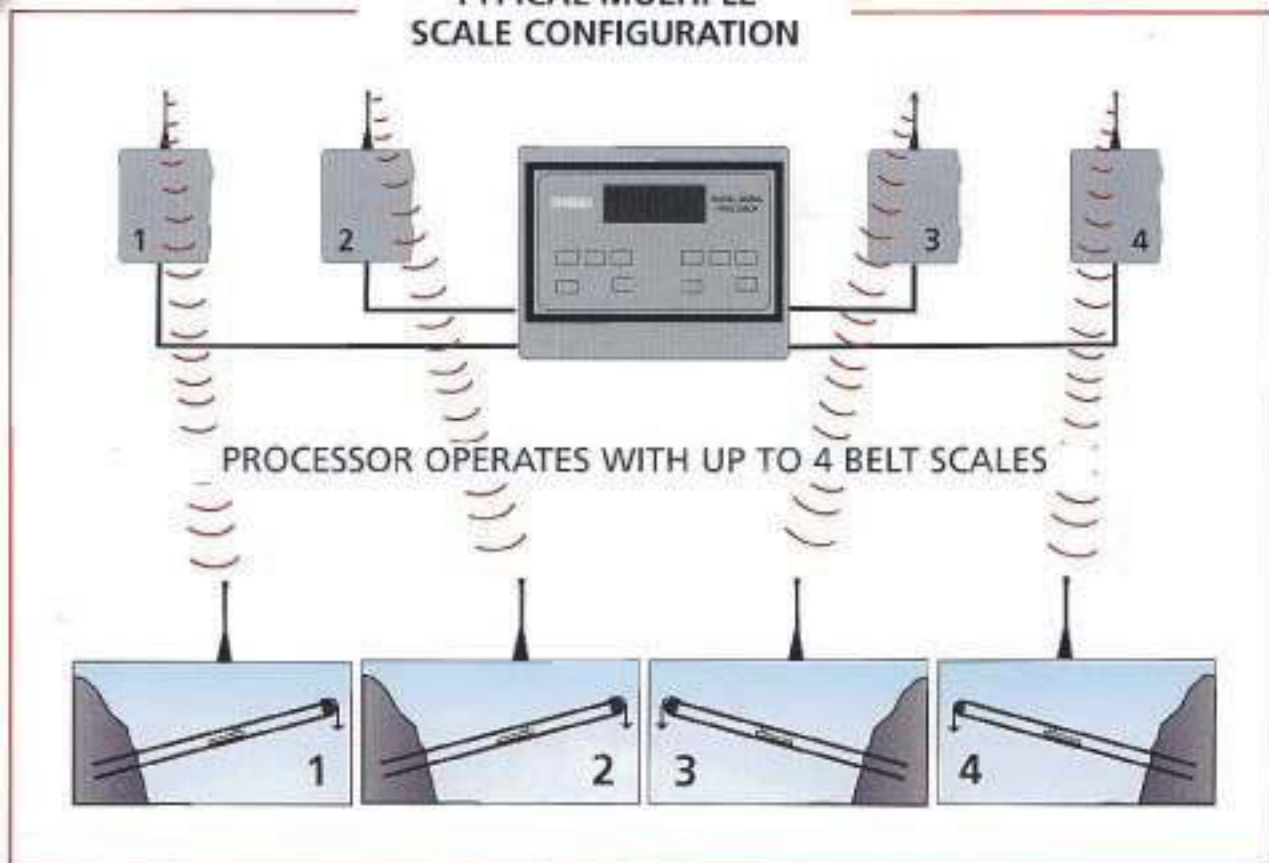
"Belt Rider"
(PowerTACH)
speed sensor

Heavy-gauge
steel carriage
pivot cover

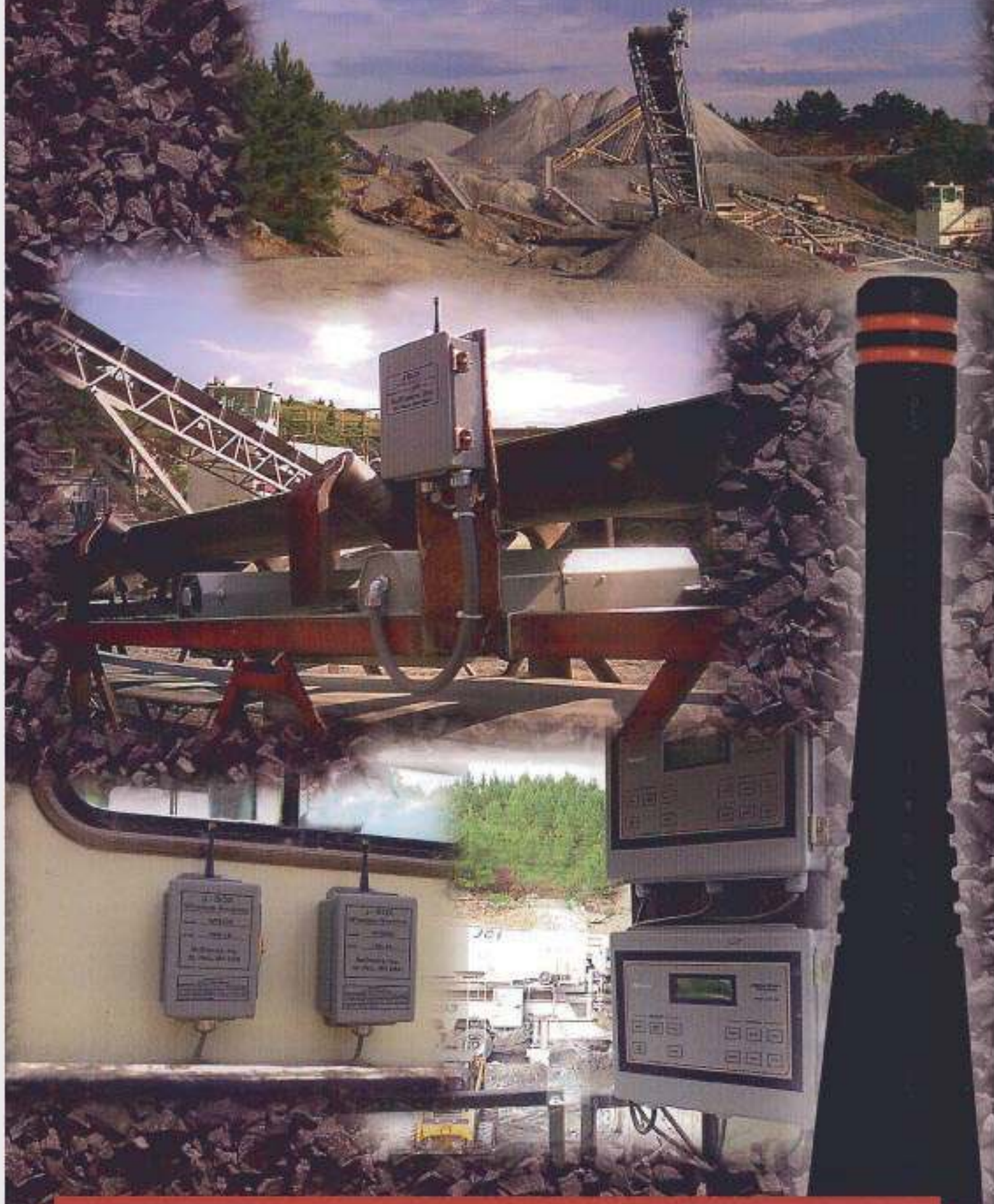
Heavy-duty steel
construction



**TYPICAL MULTIPLE
SCALE CONFIGURATION**



Model CS 1000RF in action



Conveyor Belt Scale Model CS 1000RF

Model CS 1000RF Specifications

Belt Scale System

Accuracy: $\pm 0.5\%$ on approved applications
 Weight: (based on a 30-in. (76.2-cm) scale)
 Without idler: 170 lb (77.11 kg.)
 With idler: 210 lb (95.25 kg.)

Scale Dimensions:

Length: 36 in.
 Width: conforms to CEMA standards - belt width +11 in (27.94 cm)

Scale Construction:

Rigid steel construction carriage assembly. Three-point (delta) assembly. Isolated from conveyor. Bearingless pivots.

Digital Signal Processor

Power: 115 VAC; 50/60 Hz.
 Optional
 Output Signals: Dual 4-20 mA, dual contact closure, and RS-485 serial.

Load Cell

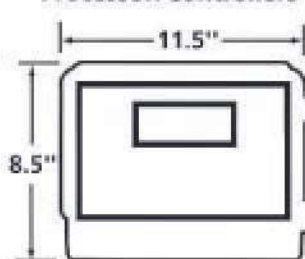
Type: *NTEP* approved "S" cell design
 Rated Output: 3mV/V 350 ohm
 Nonlinearity: <.015% of full scale
 Hysteresis: <.015% of full scale
 Nonrepeatability: <.01% of full scale

Standard Speed Sensor

Type *Belt Rider* Drive: Positive contact AC tachometer
 Enclosure: Weatherproof steel housing

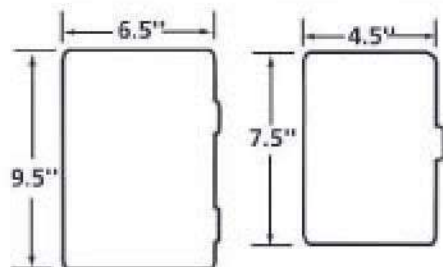
Enclosure Dimensions:

Processor/Controllers



Transmitter

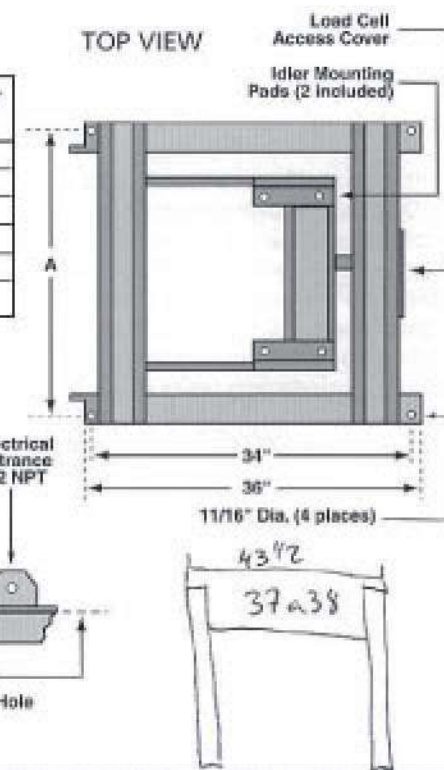
Remote Receiver



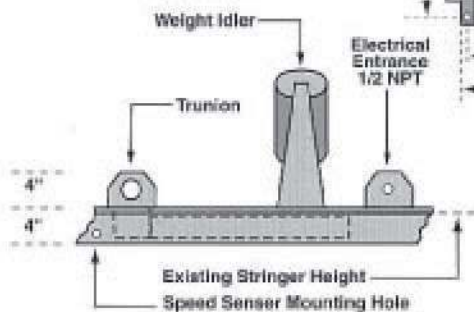
Scale Dimensions:

BELT WIDTH	A	SHIPPING WEIGHT (ESTIMATED)
18	27	340 lbs.
24	33	375 lbs.
30	39	410 lbs.
36	45	445 lbs.
42	51	485 lbs.
48	57	530 lbs.

TOP VIEW



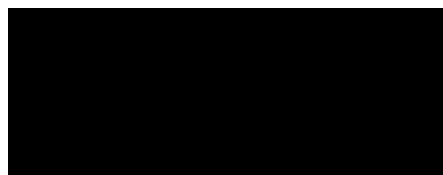
SIDE VIEW



Product specifications are subject to change without notice.

Let's get together. We'd like to learn about your weighing needs, provide all of the answers to your questions and show you how SciTronics Model CS 1000RF system can help you tighten your budget without sacrificing performance.

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