



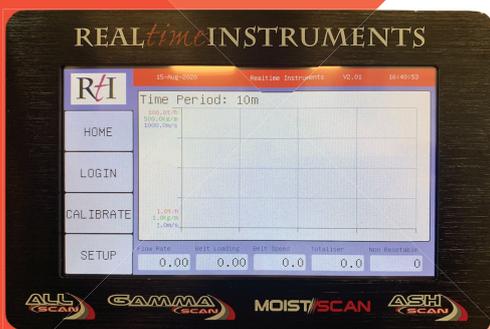
**WEIGH
SCAN**

RTI
REALtimeINSTRUMENTS

Two to Six Idler Belt Scales

RTI manufactures a range of high accuracy conveyor belt scales to suit various applications including **weighing where nobody else can.**

Using the advanced WeighScan microprocessor-based weighing transmitter to compute rate (T/H) and totalized tons along with instantaneous belt load (kg/m) and speed (m/min) indications. The descriptive and user-friendly graphical touch screen interface allows for easy operation without referring to the manual.



WeighScan Integrator

Applications:

- ▶ R.O.M. Run of Mine
- ▶ Custody Transfer
- ▶ Ore Accounting
- ▶ Inventory control
- ▶ Up to 2400mm belt widths
- ▶ Heavy duty applications
- ▶ Varying belt load applications
- ▶ Low bulk density materials e.g. Coal, wood chips, bagasse and the like

a division of

Realtime

Group Limited

*solutions
for today
and tomorrow*



ProWeigh

Accuracy and Maintenance

The ProWeigh range of scales continue to perform with impressive results in the harshest mining environments. Requiring little or no maintenance while maintaining accuracy over extended periods of time.

ProWeigh scales are the first choice at mine sites the world over where reduced maintenance and re-calibration is a requirement.

Calibration

Each weigh frame is supplied with an **on-board test weight** to facilitate calibration checks. Operated by one person the calibration check is repeatable, accurate and safe.

The WeighScan transmitter's user-friendly calibration menu provides As-Found error and correction tracking.

Belt Speed Sensor

Since the belt speed measurement is just as important as the mass, we offer a high-resolution digital encoder. The rugged design ensures reliable operation in heavy duty applications. The IP65 aluminium enclosure seals the electronics from the harsh environment.

A high wear resistant wheel is in contact with the underside of the feed belt for true material velocity measurement. The drive unit is also equipped with a self aligning hinge to follow belt direction, belt lift and sag.

RT2000 - high accuracy belt speed sensor. Rugged design for extended life under harsh mining conditions.



Specifications - 1/2

ProWeigh Weighbridge

Construction	Two, Four & Six weigh idler, counterbalanced, approach, retreat weigh frames of welded mild steel with maintenance-free pivots. ⁽¹⁾
Mounting	Stringer mounted, low profile, mounts in place of standard conveyor idlers. Belt widths from 450mm to 2400mm. ⁽²⁾
Idlers	For best accuracy weigh class idlers are recommended on the weigh bridge as well as two or three before and after the weigh area.
Accuracy	< +/-0,25% On approved installations.

WeighScan Weighing Transmitter

Mounting	Field / Wall mount in single or double door enclosure
Construction	Powder coated mild steel enclosure. ⁽¹⁾
Protection	IP65 weatherproof enclosure. ⁽³⁾
Power Supply	- 90 to 250Vac (Auto-switch mode) - 50/60Hz - 50VA
Outputs	- 4 x Analogue Outputs - 4 - 20 mA (1k Ω max.). Programmable to flow rate, belt speed and belt loading. Bulk material density and volumetric flow rates available when used in conjunction with a profile scanner. Programmable for either Rate (T/H) or Control. - 1 x Volt free relay contact. Rating 1 A at max. 30 Vdc (4) Programmable for either remote Totalisation or Sampler control. - 1 x RS232 and RS485 Modbus comms output
Inputs	- 2 x Analog inputs. Programmable for Allow for use with a Moisture analyser or profile scanner for calculation of "Dry tons" or bulk density and volumetric flow rates.
Serial Communications options	- Ethernet (Ethernet/IP & Modbus TCP/IP) - ProfiBus DP / PA - ModBus RTU - DeviceNet - Allen Bradley Remote I/O

1. Other materials e.g. Stainless steel upon request.

2. Special mounting on request.

3. Other e.g. IP66 or higher on request.

4. Higher voltage or current ratings available on request.



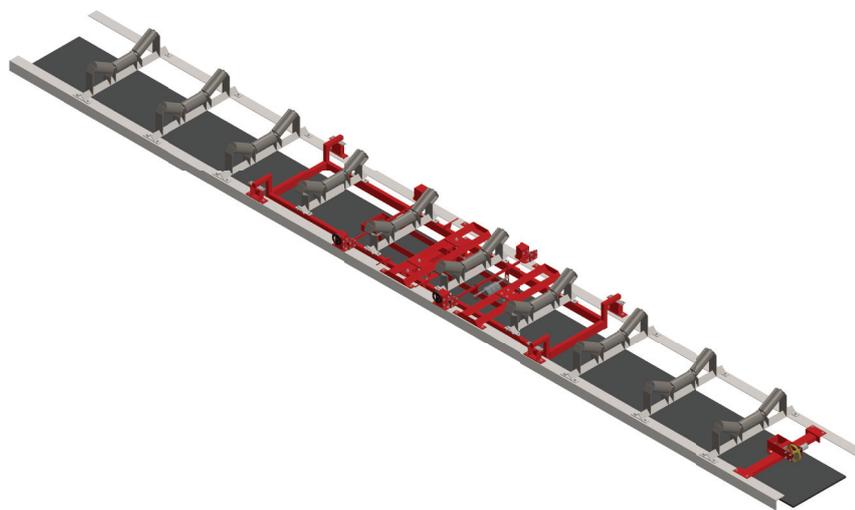
Specifications - 2/2

Load Sensor

Mounting	Mounted under tension, providing immunity to load shifts. Built in protected against overload and shock.
Quantity & type	Single, Stainless Steel precision beam type load cell
Protection	IP68 Hermetically sealed.
Excitation	5Vdc +5% (From WeighScan)
Output	2mV/V +0.1%
Overload	Safe 150%, Ultimate 300%

Speed Sensor

Construction	Aluminium housing with high wear-resistant drive wheel
Type	High accuracy digital encoder (2,000 pulses/Rev)
Mounting	Non-driven pulley stub shaft or via drive wheel in contact with belt
Protection	IP65
Excitation	12-30Vdc (From WeighScan)
Low Speed range	0.1 to 25m/min (0.0016 to 0.417m/sec)
Standard Speed range	25 to 600m/min (0.417 to 10m/sec)



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