

INTELLIROLL®

THE BELT SCALE IN A ROLLER

CONTROL
SYSTEMS TECHNOLOGY

Introducing the IntelliRoll®, a groundbreaking wireless, autonomous weigh roll unit designed by Control Systems Technology. IntelliRoll replaces a standard roller with a fully integrated belt weigher—housing load cells, electronics, communications, and self-charging power inside, with no external wiring required.

The IntelliRoll® is pre-calibrated and eliminates the need for tachometers and integrators, while reducing maintenance requirements. It transmits real-time data on flow rate, speed, and tonnes via Wi-Fi and Bluetooth to a smartphone app, making it a game-changer in material monitoring and process control.

TECHNICAL SPECIFICATIONS

- 32 Bit ARM M4 Processor
- Dual 24 bit sigma-delta ADC's for weight measurement
- 3 Axis Accelerometer
- Temperature Sensor
- Built in Tachometer
- Energy Harvesting Generator
- Battery Operation when belt stopped (8 hours)
- Belt Speed 0.6 to 6 m/s
- Wifi Communication to User
- XBee Mesh network roll to roll communication
- Designed and Built in Australia
- 2% to 5% accuracy depending on application - ideal for process control applications.



BENEFITS



ALL-IN-ONE DESIGN

A self-contained unit combining load cells, electronics, power, and communications.



SIMPLIFIED INTEGRATION

Easily integrates into existing conveyor systems with next-generation volumetric scanners and intelligent remote monitoring solutions.



REAL-TIME DATA ACCESS

Provides real-time weighing data accessible via a smartphone app, enhancing operational efficiency.



MINIMISE COSTS

Eliminates the need for tachometers and integrators, and reduces maintenance requirements — minimising downtime and operational costs.



DIRECT & ADVANCED COMMUNICATION

Multiple IntelliRoll units can communicate and cross-reference data to improve wireless belt weighing accuracy. It can also communicate directly to a PLC or SCADA via a Wi-Fi network, ensuring seamless integration and real-time data monitoring.

THE BELT WEIGHING SPECIALISTS

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INTELLIROLL INTERFACE TO SMARTPHONE APP



Users can download all data to their device when within Wi-Fi range of an IntelliRoll using the CST Smartphone App. Alternatively, a PC, iPad tablet, or similar panel can constantly monitor weigher output. Control functions, including updating conveyors systems data, are available on a PC device.

NO CABLES, SELF POWERED



No cables required, ensuring seamless and uninterrupted operation. IntelliRoll generates its own power from belt movement and transmits key metrics via Wi-Fi or Bluetooth—eliminating the need for external wiring, enclosures, or displays.

CONTACT US TODAY

Ask us how our innovative weighing solutions can optimise and enhance your bulk material handling operations, and learn more about how we engineer performance into every application!

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