

# 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

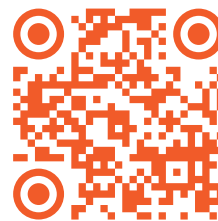
Ask us how our innovative weighing solutions can optimise and enhance your bulk material handling operations, and learn more about how we engineer performance into every application!

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**SCAN TO  
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