

The 10-30 model is a low deflection, rigid and rugged weighbridge. It's available in single or dual load cell versions and includes the following features:

- Unitized, one-piece construction for easy drop-in installation
- Pivotless full-floating platform scale design
- Precision, hermetically sealed, strain gauge load cell(s)
- End clearance eliminates material jamming and build-up
- Accepts standard conveyor idler and fits any standard conveyor

6527HFQRORPM 70 6SHHG6 HQVRU

The Ramsey 61-12 digital belt speed sensor is the most reliable and accurate speed-sensing device ever developed for belt scale service. Direct coupling the sensor to the conveyor tail pulley, snubbing roll, or the large diameter lagged return roller assures an accurate belt-travel read-out. Each pulse represents a unit of belt travel with the frequency of the pulse stream proportional to the belt speed. This speed sensor does not touch the belt eliminating problems related to material build up and slippage.

6527HFQROR PM TM 6FDVWR

The Ramsey Flex integrator provides the intelligence to the weighing system allowing accurate production monitoring, inventory tracking and controlled product load-out. Ramsey Flex integrators convert the input from the digitizer into material flow and total conveyed mass. A single Ramsey Flex integrator can manage the inputs from two scale digitizers, i.e. two individual scales.

Integrator options:

Field mount with touchscreen HMI

for at-line interaction

Panel mount with touchscreen HMI

for centralized operation from a control room

Blind without HMI

for a cost-efficient set-up for remote access or harsh environments

Ramsey Flex integrators come standard with a web-based interface allowing you to monitor and manage your belt scale system from your network PC.

Ramsey Flex Scale Digitizer

Ramsey Flex digitizers take the output signal from the weighbridge load cells and speed sensor to the electronic integrator, providing a more robust and reliable signal than standard junction boxes.



Single Digitizer

for one load cell / load cell pair input



Quad Digitizer

for four load cell / multiple load cell input

Specifications

Ramsey 10-30 Scale	
Weigh Bridge Design	Unitized, one-piece construction, pivotless, full-floating platform design
Single Load Cell Version	Designed for widths 381 to 914 mm (15 to 36 in) Net load 15.8 to 227 kg (35 to 500 lb)
Dual Load Cell Version	Designed for widths 635 to 1524 mm (25 to 60 in) Net load 29.5 to 907 kg (65 to 2000 lb)
Load Cell	Plat form type strain gauge with special span compensation, mounted in compression
Load Cell Repeatability	Within 0.1% of rated output
Ramsey Flex Integrator	
Enclosures	Stainless Steel 316, 1.6mm enclosure Weight 5 kg Field mount with HMI, Field mount blind or panel mount Optional weather shield/sunshade IP66 rating (dust and watertight)
Temperature	Operating Temperature Integrator -30 °C to 55 °C (-22°F to 131°F) Storage Temperature Integrator -30 °C to 80 °C (-22°F to 176°F)
Electronics	Arm Cortex A7 792MHz Microprocessor Internal 32 GB Storage µSD Card Load Cell Sensor 24 Bit 100Hz Sigma Delta Screen 7 Inch (17.5 cm) WSVGA 1024x600 Colour 900Nits Capacitive Touch Screen-less version for harsh environments LED indicators for maintenance (internal) Real Time Clock Battery CR1220
Power Supply	24 VDC or 110-230VAC 50/60 Hz, 15 W Wide voltage tolerance range (+-10%) Isolation/Circuit Breaker to be provided by installer
Inputs	Two 4-20mA isolated current inputs Two 0-5V voltage inputs Four optically isolated 24V @12mA digital inputs
Outputs	Two 4-20mA isolated current outputs Two 0-5V voltage outputs Four optically isolated 24V @100mA digital push pull outputs Two serial ports (RS232/RS485)
Bus Interfaces	MODBUS RTU, MODBUS TCP, ETHERNET I/P, PROFINET, PROFIBUS Supports Dual CANbus for Digitizers 10-1000m cable
Regulatory Marks	cCSAus, CE, ROHS

Ramsey Flex Digitizer	
Enclosures	Stainless steel 316, 1.6 mm enclosure Weight 2 kg Rear Mount IP66 (dust and watertight)
Temperature	Operating Temperature Digitizer -40 °C to 70 °C (-40 °F to 158 °F) Storage Temperature Digitizer -40 °C to 80 °C (-40 °F to 176 °F)
Power Supply	Via the integrator CANbus cable
Inputs	Load Cell Sensor 24 Bit 100 Hz Sigma Delta 100 measurements per second Single Digitizer has one load cell input Quad Digitizer has four load cell inputs Speed sensor / Opto pulse sensor input
Bus Interfaces	CANbus
Regulatory Marks	cCSAus, CE, ROHS

Ramsey 61-12N-64P Speed Sensor	
Type	Digital, brushless, 3-wire, 64 pulses per shaft revolution
Mounting	Direct to 15.88 mm (0.625 in) diameter stub shaft on tail pulley, bend pulley, or return roll Requires 3 conductor cable. See manual for details.
Speed	0-350 RPM
Housing	Weather-tight, epoxy finish, cast aluminium Supplied with coupling, restraint arm and restraint spring
Operating Temperature	-40 °C to 80 °C (-40 °F to 176 °F)
Weight	3.6 kg (8 lb)
Regulatory Marks	cCSAus, CE, ROHS

Find out more at srotechnology.com/ramsey-series-30