

RANGER 5230

Truck Weighing Indicator

- **Single Weighing**
- **Truck In / Truck Out**
- **Multiple Axles**
- **Tracking for up to 200 Truck IDs, Destinations and Products Reporting/ Printing Functions**



The 5230 expertly handles commonly used truck weighing functions without the need for an expensive data handling printer. It is also ideal for use in sites that don't want or need the complexity of a PC based system.

The operator data entry procedures are very straight-forward with all required fields being prompted for through the display. There are standard printing formats available to suit each type of application.

The 5230 indicator has 200 NVRAM memory allocations available for sharing between truck ids, destinations and products. This storage area is dynamic assigned during normal use to suit each sites specific requirement.

The Ranger Viewer software for PC interface allows fast and easy configuration of all operating parameters, including the ability to create, backup and restore all truck IDs, destinations and products.

The custom built LCD display uses 6 x 20mm high alpha/numeric digits with super-bright LED back-lighting for easy reading under all lighting

Multiple weighings (up to 10) are obtainable for split or axle weighing for first, second or single weights. Storage of first weights or tares against the truck ID allows for quick and easy processing of transaction.

The "find" key assists in quickly locating stored data during a weight transaction. The various levels of operator access can help protect against the accidental deletion of stored data.

The 5230 retains all the outstanding performance characteristics of the Ranger 5000 with 100,000 divisions available @ 60 updates per second in single range, dual range and dual interval modes.

The "adjustable everything" approach to the 5230 programming allows the indicator to be perfectly matched to the site requirements.

There are two individually configurable serial ports fitted; Port 1 has RS-232 and RS-485, while Port 2 has RS-232 only. The output strings are adjustable and the in-built RS-485 termination resistors can be software enabled through the setup.

The 5230 has the capability to perform automatic loading operations on the weighbridge. A single material with fast/slow feeders can be controlled with batching type software built in to the indicator. This unit also can also remind the operator when the next Quality Assurance certification is due.

The Trade Approval sensitivity of 6000 divisions @ 0.5µV per division is ideal for weighbridge use in single range, dual range and dual interval modes.

- **Stored Tares**
- **Multiple First Weigh Store**
- **Totals for Truck Product and Destination**
- **"Find" key for Enhanced Useability**
- **Truck Weighing with Batching**
- **Automatic Sequences for Un-manned Sites**
- **Dedicated truck weighing function keys**

SPECIFICATIONS

Performance	
Display	Backlit LCD with 20mm, 6 digit primary display
Display Resolution	Up to 100,000 divisions, minimum of 0.15 μ V/division Trade 6000 divisions at 0.5 μ V/division
Count-by	1, 2, 5, 10, 20, 50, 100 (Entered in Displayed Weight)
Operating Modes	Single Range, Dual Interval and Dual Range
Zero Cancellation	+ / - 2.0mV/V
Span Adjustment	0.1mV/V to 3.0mV/V full scale
Stability/Drift	Zero: <0.1 μ V/ $^{\circ}$ C, Span <10ppm/ $^{\circ}$ C, Linearity: <20ppm, Noise: <0.05 μ V p-p
Operating Environment	Temperature -10 to +50 $^{\circ}$ C, humidity < 90% non condensing
Digital	
Setup and Calibration	Full digital with visual prompting in plain messages
Memory Retention	Full non-volatile operation
Digital Filter	Averaging from 1 to 200 consecutive readings
Zero Range	Adjustable from 4% to 100% of full capacity
A/D Converter	
Type	24 bit Sigma Delta
Resolution	8,388,608 internal counts
A/D Sync Filter	Adjustable, 12.5 to 60 cycles / second, FIR filter > 80dB
Load Cells	
Excitation	8 volts for up to 12 x 350 ohm load cells
Load Cell Connection	6 wire + shield
Serial Comms	
Serial Outputs	Dual RS-232, plus RS-485
Capabilities	Automatic transmit, network or printer drive
Clock	Battery backed clock and calendar fitted
Power Supply	
DC	12/24VDC 10VA
AC	86 - 260VAC 48 - 62Hz 10VA
Dimensions	
Body Size	135mm wide x 65mm high x 105mm deep
Front Bezel	179mm wide x 82mm high (Overhang is 20mm on left and 23mm on right of Bezel)
Panel cutout	DIN 43 700 - 137(+1)mm wide x 68(+1)mm high
Options (Command 940 Only)	
Setpoint Option Card	4 x isolated 50volt, 500mA open collector transistor drives and 4 x isolated digital inputs (5V to 28V)
Combo Option Card	-10 to 10V or 4-20mA opto-isolated analog output, two outputs and one input as per the setpoint option card
No. of Option Slots	One standard
Features	
	Five Point linearity correction
	Adjustable anti-vibration filter
Approvals	
	OIML, NSC, C-tick & CE approved.

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