



rinstrum

SMART WEIGHING SOLUTIONS

Ranger 5230 Truck Weighing Indicator

- Single Weighing
- Truck-in / Truck-out
- Multiple Axles
- Reporting and Printing
- Tracking for up to 200 truck IDs, Destinations and Products



The 5230 expertly handles commonly used truck weighing functions without the need for an expensive data handling printer. It's 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 non-volatile memory allocations available for sharing between Truck ID's, Destinations and Products. This storage area is dynamically assigned during normal use to suit each sites specific requirement.

The Rinstrum "5230 Viewer" software for PCs allows fast and easy configuration of all operating parameters, including the ability to create, backup and restore all truck ID's, destinations and products.

The custom built LCD display provides a weight /data display with 6 clear 20mm high alpha/numeric digits with super-bright LED back-lighting for easy reading under all lighting

Multiple weighings (up to 10) are available for split-weighing 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 transactions.

The "find" key assists in quickly locating stored data during a weighing transaction.

Various levels of operator access are provided to help guard against the accidental deletion of stored data.

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

The "adjustable everything" approach to the 5230's programming allows the indicator to be perfectly matched to the sites 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 of performing automatic loading operations on the weighbridge. A single material with fast and slow feeders can be controlled with the "batching" software built in to the indicator.

This unit can also remind the operator when the next Quality Assurance certification is due.

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

SPECIAL FEATURES

- Stored Tares
- Multiple First Weigh Store
- Totals for Truck Product & Destination
- "Find" key for Enhanced Usability
- Truck Weighing and Loading
- Automatic Sequences for Un-manned Sites
- Dedicated Truck-weighing Keypad



| | |
|-----------------------|--|
| Performance | |
| Display | Backlit LCD with 20mm, 6 digit primary weight display |
| Display Resolution | Up to 100,000 divisions, minimum of 0.15µV/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: <0.1uV/°C, Span <10ppm/°C Linearity: <20ppm, Noise: <0.05µV p-p |
| Operating Environment | Temperature -10 to +50°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 main body) |
| Panel cutout | DIN 43 700 - 137(+1)mm wide x 68(+1)mm high |
| Options | |
| 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 on standard model |
| Approvals | |
| | OIML, NSC, C-tick & CE approved. |

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