Ranger 5200

General Purpose Keyboard Indicator

- **Basic Use**
- **Counting**
- **Totalising**
- **Check-Weighing**
- **Custom Printouts**

The all-new 5200 is a general purpose keyboard indicator that can be fitted with the usual Ranger options (Serial, Setpoints & Analog) for use in many different weighing applications.

It also has very good Totalising, Counting, Grading & Check-Weighing functions for (1) product. An optional license allows 99 products and records to be tracked and maintained.

The ability to format and print custom weight tickets is where this unit really excels; the many dedicated ticket formatting functions allows the 5200 to be configured to generate complex weight tickets quickly and easily.

The 5200's hardware and software is fully optimised for achieving fast and accurate weight readings with very short settling times.

The product ID's can be recalled through the keyboard by alpha/numeric codes and it is also possible to print product totals listing number of items, total weight and the average weight (globally or by individual codes).

The Ranger Viewer software allows for fast and easy configuration of all operating parameters, including the ability to create all setup and calibration data as well as backup and restore product names, individual totals and group totals.

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.

The on-board clock/calendar/ram-backup ensures critical zero, tare and stored totals are not lost or corrupted during an unexpected power shutdown.

The 5200 is trade approved for 6000 divisions @ 0.5µV/Division using up to 12 x 350Ω loadcells in single range, dual range and dual interval modes.

To enable complex weight tickets to be generated, using the 5200 Viewer "wizard" greatly assists a novice to quickly and easily configure and preview complex ticket formats.

The "*adjustable everything*" approach to the 5200's programming allows the indicator to be ideally configured to suit almost any 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.

- **100,000 divisions @ 60 updates per second**
- **12 x 350 Ohm loadcells**
- **High sensitivity input (0.15 µV/division, non-trade)**
- **Single range, dual range & dual interval modes**
- **Clock/calendar & battery backed memory standard**
- **"Plain English" setup & calibration messages**
- **Anti-vibration filter for mixer/in-motion applications**
- **Independent zero, span & linearising functions**
- **User-programmable full ticket formatting**
- **Full metal housing, C-Tick & CE Approved**
- **Audible & tactile feedback on sealed IP65 keypad**
- **20mm LCD display with LED backlighting**
- **Network ready with internal terminating resistors**
- **AC & DC versions available**

Performance	
Display	Backlit LCD with 20mm, 6 digit primary display
Display Resolution	Up to 100,000 divisions, minimum of 0.15 µV/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 Bezel)
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 standard
Approvals	
	OIML, NSC, C-tick & CE approved.