

RINSTRUM 2100 DIGITAL INDICATOR

HIGHLIGHTS

- NMI Approved for 6,000 Divisions
- Intrinsically Safe Version Optional
- Large 27mm Display
- Bright LED Backlight
- Standard Functions Include: Counting, Totalising, Peak Hold, Batching and Check-Weighing

FEATURES

The Rinstrum 2100 is an intelligent digital weight indicator. This high-tech unit uses surface mount components for extreme reliability and to achieve the ultra slim 23mm housing depth.

“RANGER-SMART” options are built-in but not accessible until they are purchased. This allows a base model to be bought at a very reasonable price with the ability to be up-graded by simply entering a passcode.

The large 27mm alpha LCD display has superbright LED back-lighting allowing it to be used in all lightning conditions, including bright sunlight. The Rinstrum 2100 is suitable for general purpose use but it can also be optioned to perform many specialised weighing functions.

The blank keypad button controls the special functions; such as counting, totalising, intelligent batching, peak-hold and live-weight modes. To avoid operator confusion, labels are supplied to name this key to suit the current function in use.

The on-board clock/calendar/ram ensures zero, tare, totals and other critical data is not lost or corrupted. The operator can be reminded when the next Quality Assurance certification is due by warning messages through the display.

The Rinstrum 2100 uses the very powerful sigma-delta A/D converter to ensure very stable and accurate weight readings are attained. The setup and calibration functions are fully digital with all settings displayed in plain English messages.

The Intelligent Batching software is for single material batching/filling operations using either single or dual speed feeders. Batching accuracy is maintained by the automatic in-flight correction that is updated after every batch. Automatic discharge after the fill cycle is also available.



Three remote inputs can be assigned to front key functions like zero, tare, etc. The current time can be shown in the secondary display.

The optional RS-232 serial output is rated to 15kV static protection and can be set for an automatic output, network communications or ticket printing.

STANDARD FEATURES

- Versions 2.0+ are Trade Approved
- LED Back-Lighting (Adjustable Brightness)
- 27mm Alpha-Numeric LCD Display
- 12VDC Powered in Standard Form
- 30,000 Divisions @ 25 Updates/Second
- 6-Wire Loadcell Wiring
- Clock/Calendar/RAM and Three Remote Inputs
- ON/OFF Power Switch
- Check Weighing and lb/kg Switching
- Totalising (Needs Serial Option)
- Counting and Live Weight Functions
- Peak Hold and Hold Functions
- Intelligent Batching (Needs Output Option)

Available “RANGER-SMART” Options:

- RS-232 Serial Output (Single Port)
- Three Open Collector Outputs (Shared Resources with Remote Inputs)

SPECIFICATIONS

PERFORMANCE		
Approvals	NMI and OIML Approved for 6,000 Divisions @ 1.0µV per Division, C-Tick and CE.	
Display	Backlit Alpha-Numeric LCD with Six 27mm High Digits	
Backlight	LED Backlight with Adjustable Brightness	
Display Resolution	Up to 30,000 Divisions, Minimum of 0.25 µV/Division	
Count-By	1, 2, 5, 10, 20, 50, 100	
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 100 Consecutive Readings	
Zero Range	Adjustable from ±2% to ±20% of Full Capacity	
A/D CONVERSION		
Type	24 Bit Sigma Delta	
Resolution	8,388,608 Internal Counts	
A/D Sync Filter	Fixed 25Hz, FIR Filter > 80dB	
LOADCELLS		
Excitation	8V for Up to 8 x 350Ω Loadcells (6 Wire and Shield)	
SERIAL COMMS		
Serial Output	Single RS-232 with 15kV Static Protection, Data Can be Configured for Automatic Transmit, Network or Printer Drive	
POWER INPUT		
Standard Variants	2100	12VDC (500mA+ Depending on Loadcells and Backlight)
	2100/S	2100 Fitted with 0329 Stainless Steel Housing
	2100/DC	2100 Fitted with 12-24VDC Power Input and 0329 Stainless Steel Housing
	2100/AC	2100 Fitted with 110-240VAC Power Input and 0329 Stainless Steel Housing
	2100/B	2100 fitted with a Rechargeable 12V Battery and 0329 Stainless Steel Housing
	2100/EX	2100/EX for Hazardous Areas
DIMENSIONS		
Body Size	189mm (L) x 99mm (H) x 23mm (D)	
Panel Cutout	Flush mounted with cable holes drilled separately (template provided)	
FEATURES		
Standard Features	Five Point Linearity Correction and Assignable Function Key for Operator Use	
	Totalising, Counting, Hold/Peak-Hold, Live-Weight, Intelligent Batching Software	
	Three Remote Inputs and lb/kg Switching Fitted as Standard	
	Battery Backed Clock and Calendar Fitted as Standard	
OPTIONS		
Software	0224 RS-232 Serial Output, and 0225 Three Open Collector Outputs with Check-Weighing Software	
Hardware	Panel Mounts, Desk/Wall Brackets, AC Adaptors, Output Modules, Etc.	

Accuweigh Pty Ltd

WESTERN AUSTRALIA (HEAD OFFICE):
PHONE: (08) 9259 5535

SOUTH AUSTRALIA OFFICE:
PHONE: (08) 8447 5011

NEW SOUTH WALES (SYDNEY) OFFICE:
PHONE: (02) 9728 4877



www.accuweigh.com.au

VICTORIA OFFICE:
PHONE: (03) 9548 5554

NEW SOUTH WALES (NEWCASTLE) OFFICE:
PHONE: (02) 4966 8900

QUEENSLAND OFFICE:
PHONE: (07) 3265 5520