# Rinstrum R323

## IP65
## Stainless Steel
## Indicator

- **Stainless Steel IP65**
- **VAC & DC Versions**
- **Wall & Desk Mount**
- **Back Lit Display**
- **Serial Output**

**This latest design stainless steel indicator is suitable for use in wet and dusty environments due to its sealing to IP65 standards. It also has many in-built functions allowing it to be used for almost any weighing application, including:**

- **Counting**
- **Hold & Peak Hold**
- **lb/kg switching**
- **Live Weighing**
- **High/Low Level Control**

**The R323 supersedes the R321 units, the major improvement being the keypad is now fitted from the front of the unit which greatly reduces down-time replacing damaged keypads.**

The utilisation of FLASH ROM allows the R323 to have its Firmware easily updated in the field to allow uploading of all the latest software enhancements - ensuring a long market life.

The Rinstrum "RIN-LINK" is a dedicated optical data coupling that connects to the inbuilt IR port on the indicator display for PC access to all setup and calibration functions.

The 20mm alpha LCD display with super-bright LED back-lighting can easily be read under all conditions, including bright sunlight. The backlighting uses a new matrix design for even light distribution to all digits.

The foil keypad provides tactile and audible feedback to the operator. The Power ON/OFF key has a memory feature to allow it to return to its previous operating state if the power has been removed externally (not using the OFF switch).

The RS-232 serial output can be configured for Auto, Printing or Network and the two setpoint TTL outputs are ideal for high/Low level control use. The R323 can power up to 8 x 700 Ohm loadcells and is software selectable for 4 or 6 wire operation.

The assignable (f) key controls the special functions and to avoid operator confusion, adhesive labels are supplied to name this key to suit the current function in use.

The clock/calendar/ram ensures zero, tare, totals and other critical data is not lost or corrupted. The setup and calibration functions are digital with all settings displayed in plain English messages.

- 30,000 divisions @ 20 updates per second
- Trade Approved 4000 Divisions
- Clock/calendar & battery backed memory standard
- "Plain English" setup & calibration messages
- Independent zero, span & linearising functions
- RS-232 serial port & high/low setpoints on-board
- 20mm LCD display with LED backlighting
- VAC & DC Versions

R300-732-100

| Performance | |
|---|---|
| Display | High Contrast LCD with six 20mm high digits |
| Backlight | LED backlight |
| Display Resolution | Up to 30,000 divisions, minimum of 0.25μV/division (Trade 4000 divisions at 0.8μV/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 < 0.2μVp-p |
| Operating Environment | Temperature: −10 to +50°C ambient, Humidity: <90% non-condensing |
| **Digital** | |
| Setup and Calibration | Full digital with visual prompting in plain messages |
| Memory Retention | Full non-volatile operation |
| Digital Filter | Sliding window average from 0.1 to 4.0 seconds |
| Zero Range | Adjustable from +/− 2% to +/−20% of full capacity |
| **A/D Converter** | |
| Type | 24bit Sigma Delta |
| Resolution | 8,388,608 internal counts |
| A/D Sync Filter | 20Hz, FIR filter > 80dB |
| **Load Cells** | |
| Excitation | 5 volts for up to 4 x 350 or 8 x 700 ohm load cells (6 wire + shield) |
| **Serial Comms** | |
| Serial output | Single RS-232 as automatic transmit, network or printer output |
| rin-LINK | Bi-directional isolated infrared to RS-232 PC link. |
| **Power Input** | |
| DC | 12 to 24VDC (2.5 VA maximum) ON/OFF key with memory feature |
| AC | Switch Mode 110/240VAC, 50 to 60 Hz. |
| **Dimensions** | |
| Body size | Dimensions in mm: 212 wide x 187 high x 57 deep approx. |
| **Features** | |
| | Five point linearity correction |
| | Assignable function key for operator use. Functions include Unit switching, counting, manual hold, peak hold and livestock weighing. |
| | 2 isolated transistor drive outputs (open-emitter) |
| | Battery backed clock calendar |
| Approvals | NMI & NSC approved 4000 divisions at 0.8μV/division. NTEP approvals pending. C-tick, FCC & CE approved. |