



rinstrum

SMART WEIGHING SOLUTIONS

R300 Series General Purpose Weight Indicators

Latest Technology
4,000d Trade Approved
Built-in EMC Protection
Ultra Reliable

R310
BASIC INDICATOR
(shown panel mounted)



R320
MULTI-FUNCTION INDICATOR
(shown with desk stand)



R321
MULTI-FUNCTION INDICATOR
(stainless steel IP65)



Rinstrum **R300** SERIES digital weight indicators offer high levels of performance and functionality by combining all the very latest advances in weighing technology into one compact package.

The powerful 24 bit Sigma-Delta A/D converter ensures fast and accurate weight readings, while the latest RFI-protected surface-mount PCB technology minimises power consumption and provides extreme durability under harsh operating conditions.

The comprehensive setup and calibration menus and functions are displayed in plain English, making configuration and calibration an easy task. The software auto-detects the type of power supply (plug-pack or internal batteries) and alters the power saving functions to match.

R300 FEATURES

- 30,000 Displayed Divisions
- 12-24VDC Power with ON/Off Key
- 20mm LCD with LED Backlighting
- Sealed Membrane Keypad on R321
- Silicon Keypad on R310 and R320
- Function Key on R320 and R321
- RS-232 Serial Output on R320 and R321
- 2 Isolated Transistor Outputs on R320 and R321
- Desk, wall, pipe and panel mounting options
- Battery-power option on R310 and R320
- Rin-LINK, Rin-FLASH and Rin-VIEW compatible

R320/R321 EXTENDED FUNCTIONS



COUNTING



TOTALISING



HIGH/LOW
LEVEL CONTROL



lb/kg SWITCHING



CLOCK/CALENDAR
MEMORY



PEAK HOLD



LIVE WEIGHT



NO SOLDERING



R320
(shown with pipe/wall mount)



R321
(shown wall mounted)



Battery Installation
on R310 and R320

SPECIFICATIONS

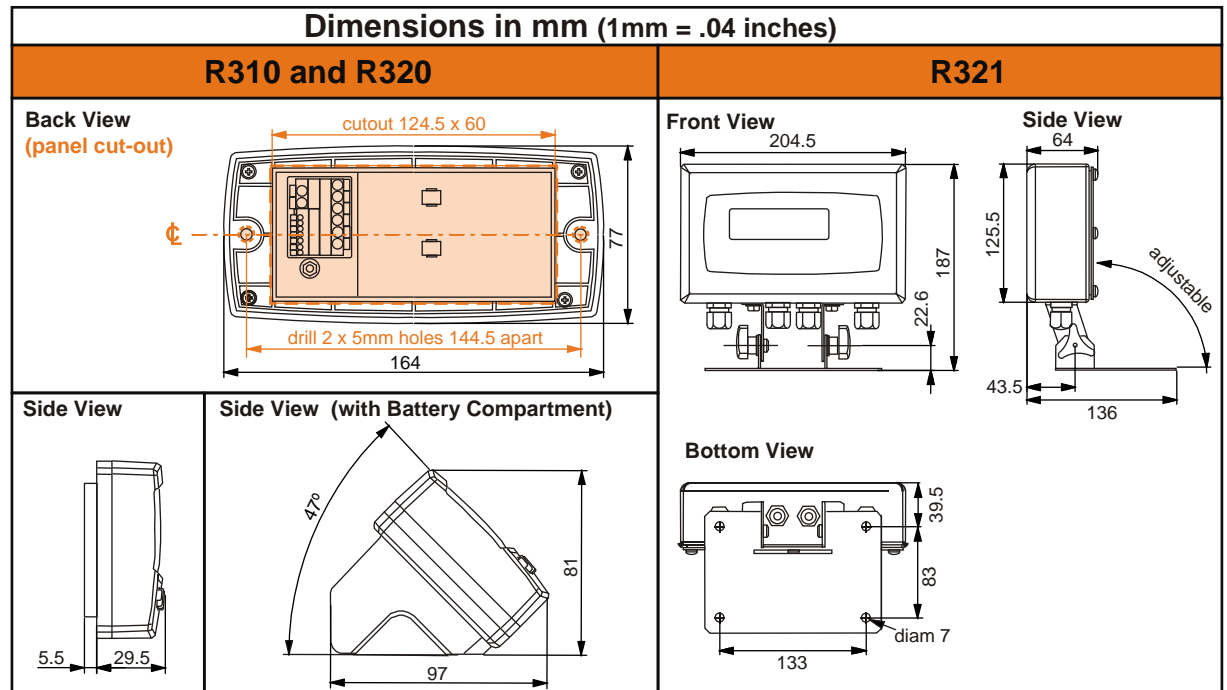


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R300-711-150

Performance		
Resolution	Up to 30,000 divisions, minimum of 0.25 μ V/division, 20 updates / second (Trade 4000 divisions at 0.8 μ V/division)	
Zero Cancellation	\pm 2.0mV/V	
Span Adjustment	0.1mV/V to 3.0mV/V full scale	
Stability/Drift	Zero: < 0.1 μ V/ $^{\circ}$ C (+ 8ppm of deadload max), Span < 8 ppm/ $^{\circ}$ C, Linearity < 20ppm, Noise < 0.2 μ Vp-p	
Excitation	5 volts for up to 4 x 350 ohm load cells (4 wire or 6 wire + shield)	
A/D Type	24bit Sigma Delta with 8,388,608 internal counts	
A/D Conversion rate	20Hz with FIR filtering > 80dB	
Operating Environment	Temperature: -10 to +50 $^{\circ}$ C ambient, Humidity: <90% non-condensing	
Digital		
Display	LCD - six 20mm high digits plus units and annunciators - LED Backlight	
Setup and Calibration	Full digital with visual prompting in plain messages	
Digital Filter	Sliding window average from 0.1 second to 4.0 seconds	
Zero Range	Adjustable from \pm 2% to \pm 20% of full capacity	
Power Input		
Standard	12 to 24VDC (2.5 VA max) - ON/OFF key with memory feature	
Variants	AC	AC Plug pack: 110/240VAC 50/60Hz in - 12VDC 0.5A out
	Battery	4 x AA batteries (Alkaline or rechargeable NiMH, NiCad, etc.)
Features		
rin-LINK data coupling	I.R. Data Coupling for optional rin-LINK cable (to RS232 PC port)	
R320 Extra Features	Five Point Linearity Correction RS-232 automatic transmit, network or printer driving Assignable function key: Unit switching, counting, manual hold, peak hold and animal weighing. 2 isolated transistor-drive outputs Battery backed clock calendar	
R321 Features	Equivalent to R320 with stainless steel IP65 housing	
Approvals	OIML (TC6242, T6244), NSC (S420), CE, FCC, Ctick	



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