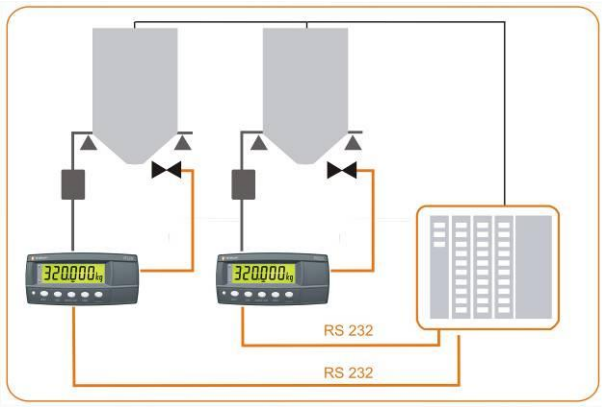
R320 and R323 – Data Sheet



- Trade Approved Australia/Europe/USA
- Configurable printing
- Built in clock calendar
- Totalising, unit switching, counting, manual hold, peak hold, live weighing
- Two isolated outputs
- AC, DC and battery options
- Built in RS232 comms port

The R300 series of indicators builds on over 15 years of design experience to create a series of cost effective reliable products that are ideal for use in mobile applications such as forklifts, platforms, inside truck cabs, crane scales and OEM applications. The compact housing and versatile power supply options make them suitable for basic weighing through to OEM applications. They are ideal for basic weight-control or level-control functions.

Available in ABS and stainless steel housings:

- R320 IP65 ABS housing
- R323 IP65 stainless steel housing.

Each comes in a panel mount variant, with options for desk, wall and pole mounting.

Programmable function key configured for any one of the built-in functions (Unit switching. Counting, Manual Hold, Peak Hold, Live Weight, Totalising)

Configurable printing combined with the **clock calendar** allow for traceable dockets to be printed.

Built in RS232 communications port is 15kV static protected.

Two Isolated set point outputs - high side driver up to 300mA, allowing direct connection to PLCs and for external actuators to be driven directly

Wide DC operation (7-24V) to suit a variety of onboard OEM applications. Eliminates the need for third party power supplies saving on system complexity and cost.

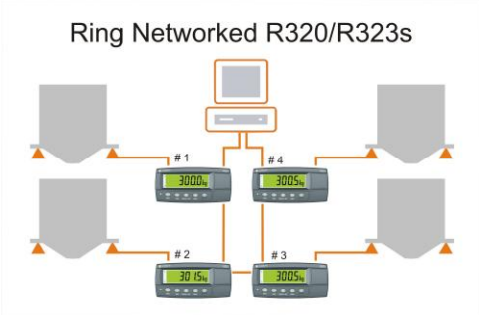
Long life rechargeable battery options ideal for mobile installations allowing for operator flexibility.

Opto-link magnetically coupled link on front fascia for easy access in situ for updates/setup of the indicator, saving the installer time and effort.

IP65 rated housings: Dust and water tight, increasing reliability and indicator life time.

Trade approved in Australia, Europe and USA. Products are export ready with approved componentry.

Smart Weighing



Ring networking

- Connect up to 31 indicators in a ring network
- Save on cabling
- Single interface back to the master PC

..now that's smart weighing

R300 Series Specification Table

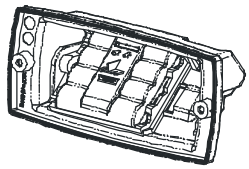
		R310	R320	R323
Resolution		Up to 30,000 divisions, minimum of 0.25µV/division.(K303: up to 60,000 divisions)		
Zero Cancellation		± 2.0mV/V		
Span Adjustment		0.1mV/V to 3.0mV/V full scale		
Excitation		5 V for up to 4 x 350 or 8 x 700 ohm load cells (4-wire or 6-wire plus shield) Max total load cell resistance: 3,500Ω (4x350Ω Nontrade 8x350Ω)		
A/D Type		24bit Sigma Delta with 8,388,608 internal counts 20 updates/second		
Operating Environment		Temperature: –10° to +50°C ambient (14° to 122° F) Humidity: <90% non-condensing IP65 when panel mounted		
Display		LED Backlit LCD with six 20mm (0.8") high digits with units and annunciators		
Setup and Calibration		Full digital with visual prompting in plain messages		
Digital Filter		Sliding window average from 0.1 to 4.0 s		
Zero Range		Selectable from ± 2% to ± 100% Full Scale		
Standard Power Input		7 to 24VDC, 4.8, 9.6,12 and 24V batteries (2.5 VA max) ON/OFF key with memory feature		
Variants	**AC**	AC Plug pack: 110/240VAC 50/60Hz in 12VDC 1.5A out		AC Power supply: 110/240VAC 50/60Hz in 12VDC 1.2A out
	Battery	12V battery pack (rechargeable NiMH)		12V battery pack (rechargeable NiMH)
		4 x AA batteries		-
Optical Data Communications		Magnetically coupled infra-red communications Conversion cables available for RS232 or USB		

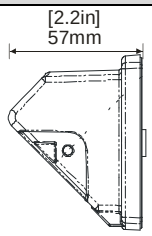
	R310	R320	R323
Serial Outputs	-	RS232 automatic transmit, network or printer outputs. Transmission rate: 2400, 4800 or 9600 baud	
Assignable Function Keys	-	1	
Input/Outputs	-	2 Outputs - isolated transistor drive outputs (300mA total at 50VDC)	
	-	1 Input	
Battery Backed Clock Calendar	-	Battery life 10 years minimum	
Functions	-	Unit switching, counting, manual hold, peak hold, live weight, totalising	
Set points	-	2	
Case Materials	ABS Housing		Stainless Steel Flush Mount
Packing Weights	Basic Indicator: 0.34kg (12oz)		Basic Indicator: 0.49kg (17oz)

	(R310) K301	K302	K305	K303
Approvals	4,000 d @0.8uV/d NMI (S-420),OIML R76			10,000d III/III L NTEP 08-072
	-	T6244, TC6242, EN 60601-1-2: 2007,		-
	FCC, CE, C-tick,			
Linearity Correction	Ten point		-	
Range	Single	Single	Dual	Single

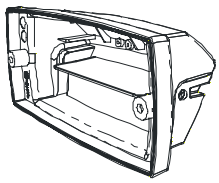
R320 Brackets		R323 Brackets	
M3002	**M3007**	**M3010**	**M3011**

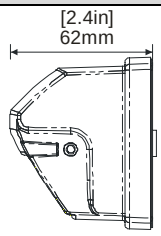
R320 Accessories – Rear boots





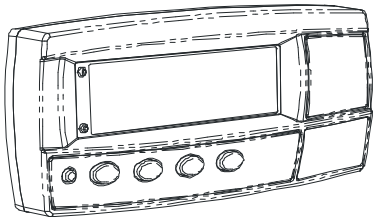
M3001
ABS boot with integral desk mount and mounting bracket support with battery compartment for 4AA batteries

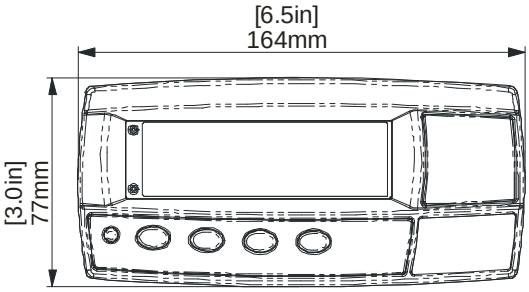


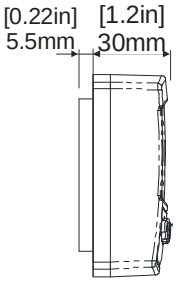


M3003
IP65 boot also used for rechargeable battery option

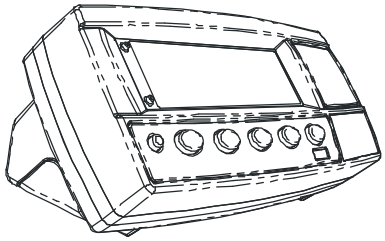
ABS Panel Mount

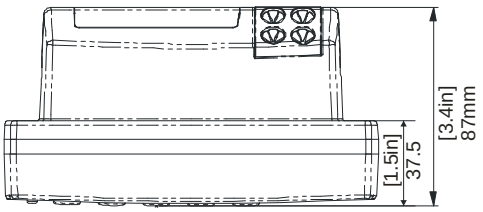


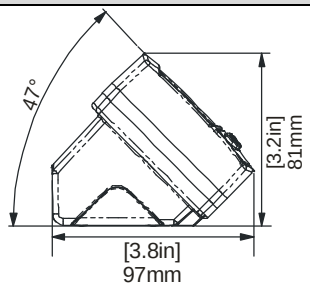




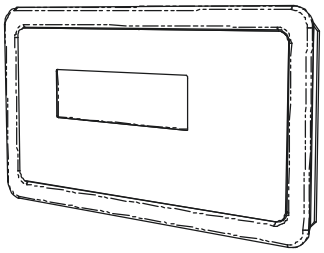
ABS with Rear Boot Desk Stand (M3001)

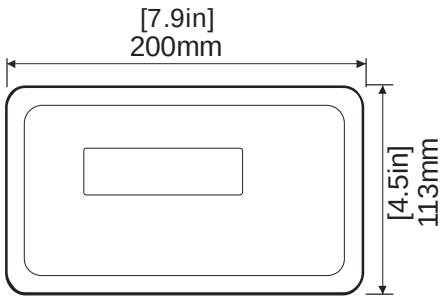


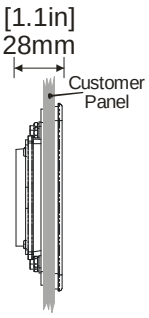




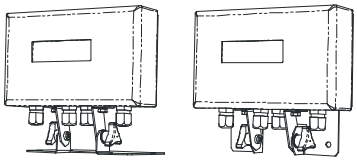
Stainless Steel Panel Mount

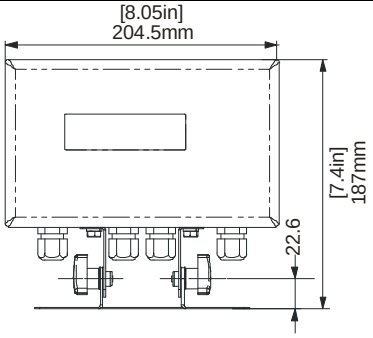


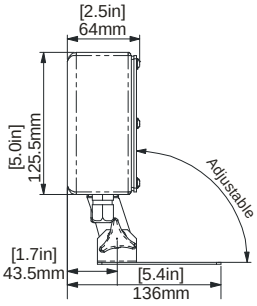




Stainless Steel with Rear Housing and Stand







Specifications are subject to variation for improvement without notice. Illustrations are indications only and variation may be evident between products