

The GR300 series of indicators builds on over 20 years of design experience to create a series of cost effective reliable products



FEATURES

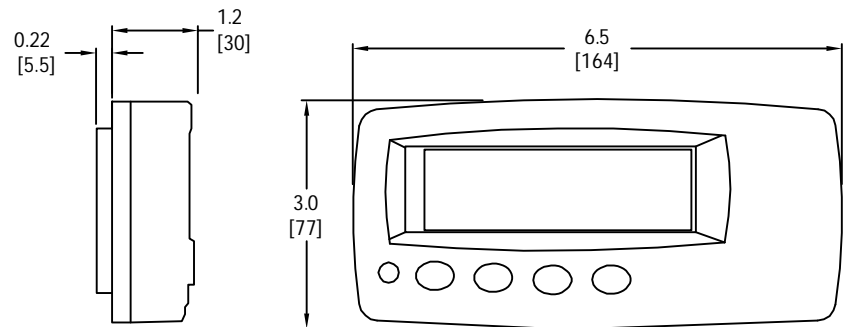
- Tough, compact ABS housing or Stainless Steel housings.
- AC, DC and rechargeable NiMH battery options.
- 20mm (0.8in) LCD display with LED backlight.
- Versatile mounting options.
- Opto-link connector.

APPLICATIONS

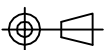
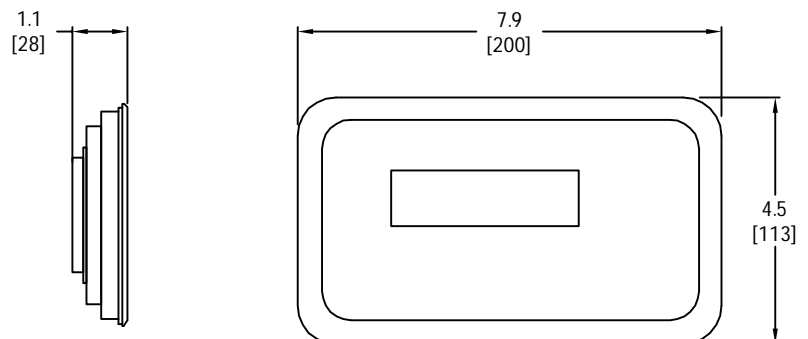
- Mobile applications such as forklifts, platforms, inside truck cabs and crane scales, OEM applications.

OUTLINE DIMENSIONS

GR320 (ABS Housing)

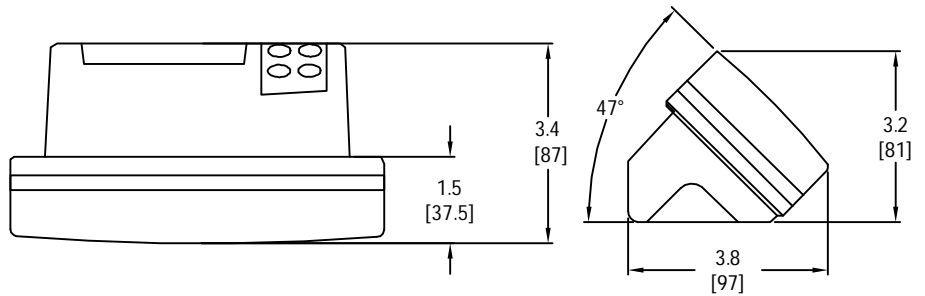


GR323 (Stainless steel)

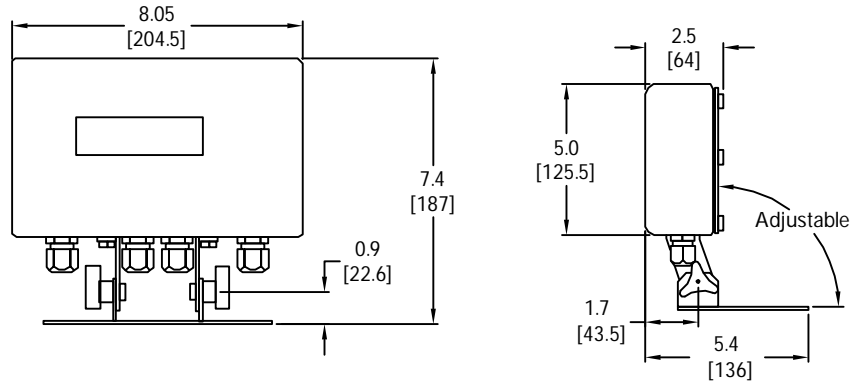


indicator GR300

ABS with Rear Boot Desk
Stand (M3001)



Stainless Steel with Rear
Housing and Stand



GR320 :



GR323 :



SPECIFICATIONS

Model	GR320	GR323
Resolution	Up to 30,000 divisions, minimum of 0.25 $\mu\text{V}/\text{division}$	
Zero Cancellation	$\pm 2.0\text{mV}/\text{V}$	
Span Adjustment	0.1mV/V to 3.0mV/V full scale	
Excitation	5 volts for up to 4 x 350 or 8 x 700 ohm load cells (4-wire or 6-wire plus shield) Maximum total load cell resistance: 3,500 ohms(4X350 Ω Nontrade 8X350 Ω)	
A/D Type	24bit Sigma Delta with 8,388,608 internal counts, 20 updates/second	
Operating Environment	Temperature: -10 to $+50^{\circ}\text{C}$ ambient Humidity: $<90\%$ non-condensing IP65 when panel mounted	
Display	LED Backlit LCD with six 20mm 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 seconds	
Zero Range	Selectable from $\pm 2\%$ to $\pm 100\%$ of 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
	Battery	12V battery pack (rechargeable NiMH) 4 x AA batteries
Case Material	ABS Housing	Stainless Steel Flush Mount
Packing Weight	Basic Indicator: 0.34kg	Basic Indicator: 0.49kg
Optical Data Communications	Magnetically coupled infra-red communications Conversion cables available for RS-232 or USB	

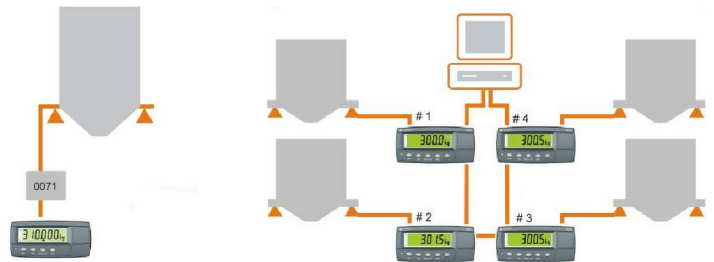
Dimensions and specifications subject to change without notice

indicator GR300

APPLICATIONS

Tank weighing

Tank weighing from a single tank to a tank farm can be handled with GR320 & GR323. The R320 and R323 provide basic weighing functionality at the tank. The two high current isolated outputs can provide local control which could be used for level control for example. The communications port can be used to work back to a PC or in a larger installation multiple indicators can be configured in a ring network, saving on cabling.



Ring Networking

The R320 and R323 support can be configured into a ring network back to a computer using R232.

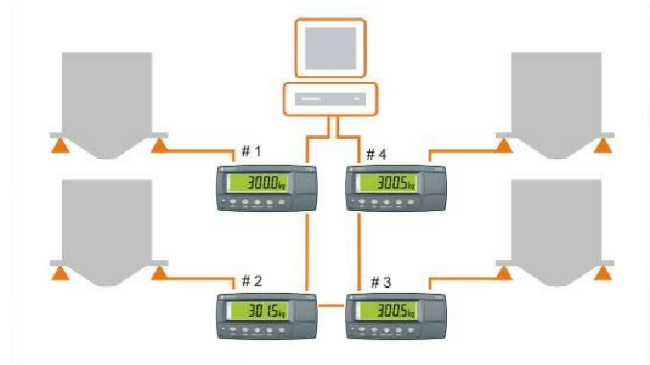
- Connect up to 31xR320/R323s into a ring network.
- Simple setup with the R300 Viewer.

Benefits:

- Uses only one communication port on the computer
- Saves on communications cabling.

Idea for:

- Tank farms.
- Multiple silo and bin weighing applications.
- Multiple scale applications.
- Process Control applications.



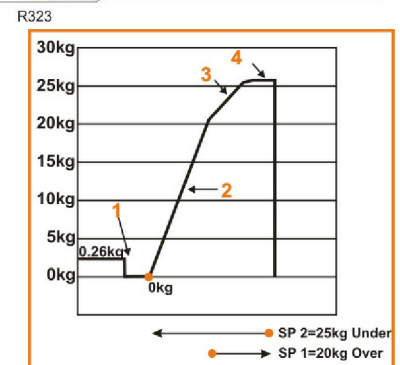
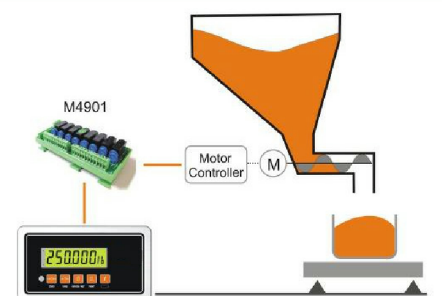
Set Point Control

The R320 and R323 feature two outputs and one input. The outputs are used to control a two speed screw feed auger.

The set points are used to control the filling speed change over point and the final cut off weight. The filling auger starts at high speed until set point one is reached where the speed slows until set point two is reached and filling is stopped.

Remote TARE Function: To allow for varying bag weights (tare weight) the remote TARE function is used to maintain a true zero starting point.

Programmable Function Key - can be configured to allow the operator to view and edit the set point targets



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