

The GR400 series of indicators are designed with both the installer and operator in mind and cover a wide range of applications.



IP65

FEATURES

- 100,000 d @ 0.25 μ V/d.
- Built in RS232/RS485 communication modules.
- IP65 ABS or stainless steel housing.
- Designed to take 16x320 ohm load cells.
- Ethernet and Profibus DP support.
- Robust precise analogue output module.
- 250 Product storage.
- Counting with piece weight entry.
- Custom unit switching.
- Set pointing configured on a product basis.
- Reporting.
- Custom printing.

APPLICATIONS

- Weigh bridges, general trade weighing, multiple indicator weighing systems and process control.

GR420 (ABS housing):



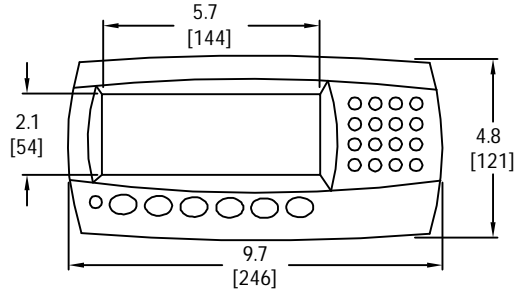
GR423 (Stainless steel housing):



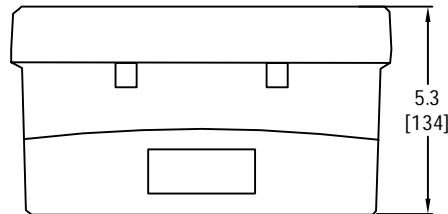
indicator
GR400

OUTLINE DIMENSIONS

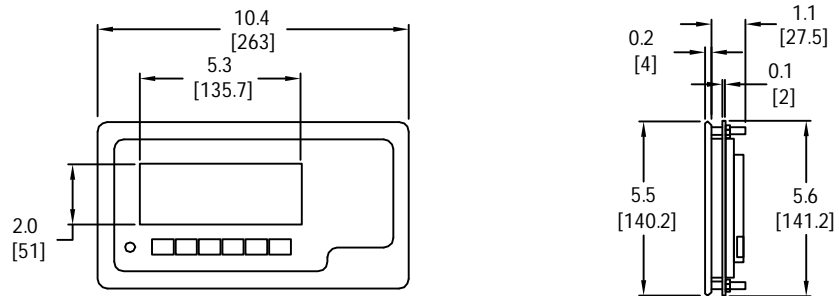
ABS Panel Mount :



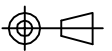
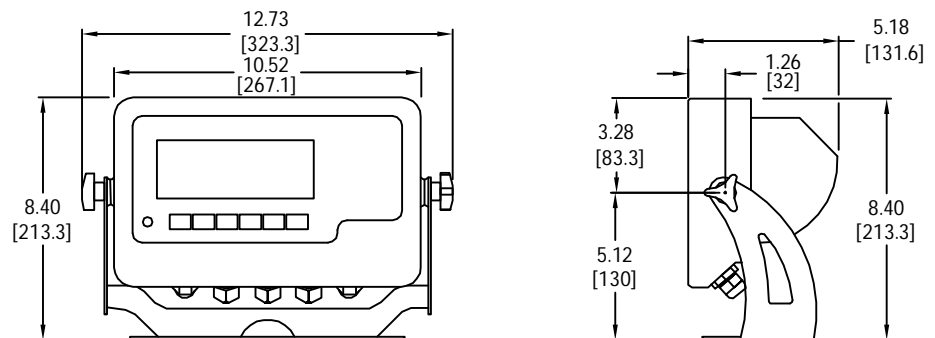
ABS with Rear Boot :



Stainless Steel Panel Mount:



Stainless Steel with Rear Housing and Stand:



indicator GR400

SPECIFICATIONS

Resolution	Up to 100,000d minimum of 0.25uV/d					
Approvals	10,000d@0.7uV/d NMI(S-463), OIML R76 III/III L-NTEP 08-720 MID 2004/22/EC-WELMEC 2.1 & 7.2 FCC, CE, C-tick					
Zero Cancellation	±2.0 mV/V					
Span Adjustment	0.1mV/V -3.0mV/V					
Excitation	7.4V for up to 16 x 350 or 32 x 700 ohm load cells (4-wire or 6-wire plus shield) Maximum total load cell resistance: 1,000 ohms					
A/D Type	24bit Sigma Delta with ±8,388,608 internal counts					
Operating Environment	Temperature: -10 to +50°C ambient (14 °F to 122 °F) Humidity: <90% non-condensing					
Display	LCD with 4 alpha-numeric displays and LED backlighting: Primary display: 6 x 28.4mm (1.12") high digits with units and annunciators 2nd display: 9 x 17.6 mm (0.7") digits with units 3rd display: 8 x 6.1 mm (0.2") digits 4th display: 4 x 7.6 mm (0.3") digits					
Setup and Calibration	Full digital with visual prompting in plain messages					
Digital Filter	Sliding window average from 0.1 to 30.0 seconds					
Zero Range	Adjustable from +/- 2% to +/- 20% of full capacity					
Standard Power Input	12 to 24VDC (15 VA max) - ON/OFF key with memory feature					
Variants	AC	AC power supply Input: 110/240VAC 50/60Hz Output: 12VDC 15VA				
	Battery	2.5AH NiMH rechargeable battery pack Charger Input: 110/240VAC 50/60Hz Output: 12VDC				
Optical Data Communications	Magnetically coupled infra-red communications Conversion cables available for RS232 or USB					
Correction	10 point linearity correction					
Serial Outputs	Serial 1A: RS-232 serial port for remote display, network or printer supports. Serial 1B: RS485 transmit only for remote display Transmission rate: 2400, 4800, 9600 or 19200 baud					
Assignable Function Keys	3					
Operating Modes	Single Range, Dual Range and Dual Interval					
Battery Backed Clock Calendar	Battery life 10 years minimum					
Application Software	K401	K402	K404	K410	K411	K412
Functions	Custom printing, custom unit switching, counting, manual hold, peak hold, auto output totalising	Single pass weighing Two pass weighing Dedicated truck key Custom printing Temporary Truck IDs Preset Tare Specialised truck dockets	1 Material	6 Material	20 Material	Up to 10 Batching Stages 3 Speed Fill Fill, Dump & Pulse stages Inflight & jogging correction, Negative batching Batch suspend Timer (RTC) based multiple batching
Products/Recipes	1	250	250 Trucks	100 Recipes		
Analogue Output * (M4401)	1		-	1	-	
Set points	8					
Additional Communications *	Module: RS232/RS232 Module: RS232/RS485 Module: RS485/RS485					
Button Input *	4 Buttons					
Data Storage Device * (M4501)	1					
Profibus-DP	Used with Group Four 1400 Profibus-DP Module					
Ethernet * (M4221)	1					
Housing Options	GR420			GR423		
Case Materials	ABS			Stainless Steel		
Packing Weights	Indicator: 1kg (35 oz)			Indicator: 1.2kg (42 oz)		
Environmental IP Rating (panel mounted or with rear boot)	IP65			IP66		

Group Four Transducers

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indicator GR400

APPLICATIONS

Tank weighing

Tank weighing from a single tank to a tank farm can be handled with GR400.

The GR400 indicators provide the most flexibility and control as they can be configured with multiple IO and communication options - including Profibus and Ethernet.

An GR400 indicator is suitable as a standalone controller or as a networked unit.



Filling and negative batching

Batching specifications

- 100 Recipes (Products)
- 3 fixed batching stages- Fill, Dump and Finish 1 Material
- 3 Speed Fill
- Fill correction using jogging or in-flight Dump to time or weight
- Negative batching
- Batch suspend
- Timer (RTC) based multiple batching

Negative batching

- Negative batching is supported by setting the fill direction which defines if the weight is increasing or decreasing while batching.
- Ideal for discharge and dosing applications.

Batch suspend

- A suspend function key can be set that will pause the batch and adjust the tare weight when resuming the batch.
- Ideal for when a material feeding the batch needs to be topped up during the batch without affecting the batched amount. Or when feeding from multiple bulker bags etc.

Time of day batching

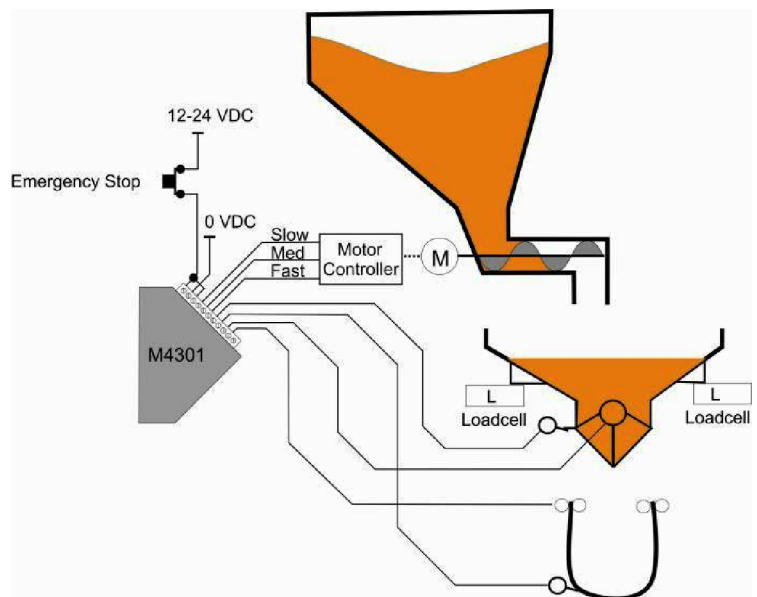
- Timer based multiple batching
- The Real Time Clock is used to control the batch timing for time based batching.
- Ideal for bio-fuel applications or where exothermic reactions occur.

Applications -

- Dosing, bag and silo filling
- Filling applications using negative batching, for example discharge from a silo into a truck.

Input/Output Modules - the inputs are isolated to resist against system noise. The outputs are rate to 400mA drive current at 12-24VDC - capable of driving low voltage actuators directly or can be connected directly with PLC controllers. Optional external relay PCB can switch 250VAC to 8A, an ideal component for standalone batching.

Operator friendly – the large two line display uses logical prompts and there are dedicated and programmable function keys. Printing can be tailored with custom record, docket or reports printouts.



Dimensions and specifications subject to change without notice



Pioneering Measured Solutions

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