

R400 Series Build to Order Console - Data Sheets



- 100,000 d @ 0.25 μV/d
- Powder Coated or stainless steel options.
- Completed cabling within the unit.
- Viewer Software for configuration and diagnostics.
- Save400 software for cloning applications.
- FELS operations via DX40 software in optional D640/D740 remote displays.
- Internal Logic relays in 400 Series allow for additional I/O control beyond the standard weight triggered I/O.

The R400 series of indicators are ideal for mounting in consoles for a wide variety of applications including filling, batching and process control just to name a few. The console houses the power supply and relays that are used to control external devises; motors, solenoids etc. The R400 series modularity makes it ideally suited for build to order applications where the modules and accessories can be easily specified to be incorporated in one unit to suit your applications.

Two consoles are available selected according to the environment with either the R420 (ABS) rated to IP65 or the R423 (stainless steel) rated to IP66.

A typical configuration would include:

- **DIN rail mounted relays** that are used in conjunction with an I/O module and provide 8 voltage free relay outputs rated to 250VAC up to 8A.
- DIN rail mounted 240VAC Power Supply
- Emergency Stop and coloured buttons configured as required
- Cabled and with a basic configuration for the application firmware that has been selected.

Flexibility is the key with its award winning modular accessory design and the ability to utilise the ever increasing Software Variants of the 400 Series of Indicators.

Modules include: Additional RS232/RS485 Serial options, Input/Outputs, Analogue outputs, voltage free inputs for buttons etc. Ethernet, Alibi (Data Storage Device) as well as battery or AC options.

Operator friendly - large multi-segment display that uses logical prompts along with dedicated and programmable function keys.

Printing can be tailored with custom record, docket or reports printouts. Primary display is 29mm (1.1") and secondary display 18mm.

Smart Weighing

Superior Diagnostics

R400 series indicators have a range of diagnostic tools and features that aid system commissioning and maintenance. Hardware configuration report summarises how the indicator hardware is setup, providing a record for maintenance purposes or fault finding

Force Output and Test Input functions allow the installer to specifically test I/O to assist in site setup

Modules can be swapped in and out without recalibration of the indicator, saving time and effort

Status LED on each I/O, both on I/O module and Relay card.

Overload counter to review if the scale has been overloaded.

Viewer Software connection via RinLink to assist with additional configuration and storing applications for future development as well as supporting existing installations.

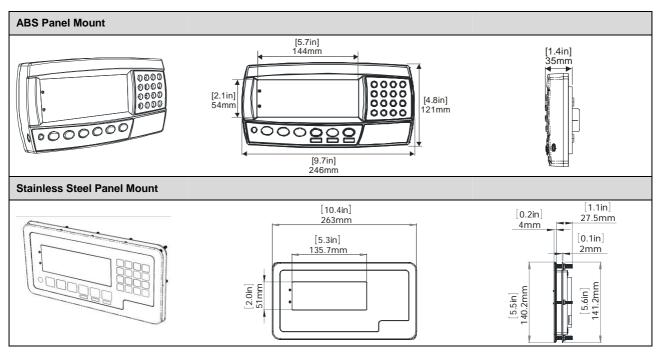
..now that's smart weighing.



R400 Series Specification Table

Resolution		Up to 100,000 d, minimum of 0.25uV/d							
Approvals Zero Cancellation				10,000 d @0	.7uV/d NMI(S-463), OIML F	R76			
				II	I/III L NTEP 08-720				
				MID 2004/	22/EC - WELMEC 2.1 & 7.2	2			
			FCC, CE, C-tick						
		+/- 2.0mV/V							
Span Adjustment		0.1mV/V to 3.0mV/V							
		7.4V for up to 16 x 350 or 32 x 700 ohm load cells (4-wire or 6-wire plus shield)							
Excitation		Maximum total load cell resistance: 1,000 ohms							
А/D Туре		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							
		2 nd display: 9 x 17.6 mm (0.7") digits with units							
		3 rd display: 8 x 6.1 mm (0.2") digits							
		4 th display: 4 x 7.6 mm (0.3") digits							
Setup and C		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 Po	ower input	+		``	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							
Correction		Conversion cables available for RS232 or USB							
Correction Serial Outputs		10 point linearity correction 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									
Application Software		K401	Battery life 10 years minimum K401 K402 K404 K410 K411 K412						
Application	Continuito		11402	11101	1 Material	6 Material	10 Material		
		Custom	printing	Single pass weighing	3 fixed batching stages	Up to 10 Bate			
Functions		Custom printing, custom unit switching, counting, manual hold, peak hold, auto output totalising		Two pass weighing Dedicated truck key Custom printing Temporary Truck IDs Preset Tare Specialised truck dockets	- fill, dump and pulse	3 Spee	0 0		
					3 Speed Fill	Fill, Dump &			
					Inflight & jogging correction,				
					Negative batching				
					Batch suspend				
					Timer (RTC) based multiple batching				
Products/Recipes		1	250	250 Trucks	. ,	100 Recipes	5		
Set points*		8 Standard, Expandable to 32*.							
Analogue O	utput *				1				
Additional Communications *		Module: RS232/RS232 Module: RS232/RS485 Module: RS485/RS485							
Button Input *		4 Buttons dry input contacts.							
Data Storage Device *		1							
Profibus-DP*		Used with Rinstrum 1400 Profibus-DP Module							
	Ethernet *		1						
Ethernet *		R420			R423				
	otions			R420		R423			
Indicator Op Case Materi				R420 ABS		R423 Stainless Steel			





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

Console dimensions

Powder Coated Console	300 x 380 x 200
Stainless Steel Console	300 x 380 x 200

Please contact Rinstrum to discuss your configuration requirements.