Trade Scales Limited

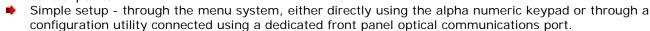
Weight Displays

R400 Series Weight Displays

Features

Flexibility is the key with its award winning modular accessory design. Modules include: additional serial options, input/outputs, analogue output, external buttons and battery or AC option.

- ▶ Superior IP65 housings available in both ABS (R420) and stainless steel (R423), each with a high impact polycarbonate lens to protect the LCD from knocks.
- Robust I/O designed for direct connection into PLC's, or direct drive up to 400mA each with up to 32 I/O control points.



Operator friendly - large two line display (29mm and 18mm) that uses logical prompts along with dedicated and programmable function keys. Printing can be tailored with custom record, docket or report printouts.



Application Software

The application software is specified by the K4xx designation. One of the unique features of the R400 series is the capacity to upgrade the application by simply purchasing the application software and swapping out the keypad overlay. This capability dramatically lowers stocking and maintenance costs.

R420-K401	Counting with piece weight entry Custom unit switching	The R420-K401 is a general purpose indicator with many advanced features: → Programmable printing for customized dockets and reports → Custom Unit Switching allows complete flexibility in the definition of alternative weighing units
R420-K402	Product storage Setpointing Analogue Output	The R420-K402 adds set pointing, analogue output and multiple-product configuration to the K401. ▶ Powerful product configuration allows for parameters like setpoint targets, piece weights and units conversions to be stored for each product ▶ Flexible setpoint configuration for improved system integration. Each setpoint can be individually configured to instrument status or weight target triggers
R420-K411	10 Batching stages Fill, Dump, Wait and Pulse stages 6 Materials 3 Speed Fill Fill correction using jogging or inflight Dump to time or weight	The R420-K411 indicator provides a powerful and flexible batching controller. Dedicated batching keys and an intuitive interface make this product ideal as the primary control point for the system. → The multi-line display shows batch progress, current weight, target weights, material name along with dedicated batch status annunciators → Programmable printing for customized dockets and reports → Detailed reporting with material usage and batch statistics, along with QA records of every batch run when combined with the data logger → Batching operation flexibility where batch size can be varied by either weight or proportion and the operator can set number of batches to run

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Rugged Load Cell Input

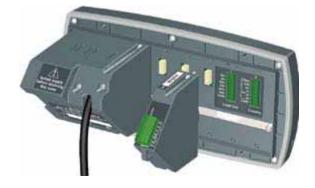
- ▶ Designed to take 16x350 ohm load cells; providing flexibility and reducing the need for summing hardware, simplifying the installation and saving money
- Protected with onboard transorbs; designed to limit damage to the load cell input from external voltage surges, all built into a 10,000 div trade approved indicator.

Superior Diagnostics and Support

Diagnostic tools and features to assist the installer in 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
- An LED on each I/O provides a visual status;
- Overload counter to review if the scale has been overloaded to assist in maintenance
- ➡ The magnetically coupled infra-red port on the front panel provides a convenient temporary connection to a laptop for simplified setup when combined with Rinstrum's PC configuration software, Viewer

Versatile Power Options - DC, AC and battery	The wide DC operating range eliminates the need for third party power supplies saving on system complexity and cost. The rechargeable battery version is design to achieve maximum time between recharges.			
Precise Robust Analogue Output	 The analogue output module provides a 4-20mA or 0-10V analogue output Output isolated to resist system noise and interference therefore reducing unnecessary callouts Precise with a 400Hz (2.5msec) update rate and 1/65,000 resolution 			
Input/Output Modules	The indicator can be configured with up to 32 I/O. Direct connection between I/O points is supported and outputs are isolated to resist system noise. These high side (400mA current source) drivers are capable of driving low voltage actuators directly or can be connected directly with PLC controllers.			
Additional Serial Communications Ports	Fully isolated: RS232/RS232, RS232/RS485, RS485/485			
Button Module	Provides four (4) voltage free inputs for use with switches or thumbwheels			
DIN Rail Mount Relay Outputs	The optional relay outputs are used with R42x input/output modules to provide eight (8) voltage free relay outputs rated to 250VAC and 8A			



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Specifications

Resolution		Up to 100,000 divisions, minimum of 0.25mV/division				
		FCC, CE, C-tick, Trade Approval Australia NMI(S-463) 10,000 d @0.7uV/d				
Approvals		Trade Approval Europe OIML R76 10,000 d @0.7uV/d				
Zero Cancellati		+/- 2.0mV/V				
Span Adjustment		0.1mV/V to 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 Humidity: <90% non-condensing Storage: -20 to +50°C ambient IP65 when panel mounted or with rear boot (otherwise IP40)				
Display		LCD with 4 alpha-numeric displays and LED backlighting: Primary display: 6 x 28.4mm high digits with units and annunciators 2nd display: 9 x 17.6 mm digits with units 3rd display: 8 x 6.1 mm digits 4th display: 4 x 7.6 mm 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		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 RS-232 or USB				
Correction		10 point linearity correction				
Serial Outputs		Serial 1A: RS-232 serial port for remote display, network or printer supports. Serial 1B: RS-485 transmit only for remote display Transmission rate: 2400, 4800, 9600 or 19200 baud				
Assignable Function Key		3				
Operating Modes		Single Range, Dual Range and Dual Interval				
Battery Backed Clock Calendar			Battery life 10	years minimum	า	
Application Software		K401	K4	02	K411	
Functions		250 Products Custom printing, custom unit switching, counting, manual hold, peak hold, auto output and totalising Material, Inflight a Jogging Correction, 3 Significant Fill, Up to 10 Batching Stages: Fill, Dump, No.		100 Recipes Printing, Auto output 6 Material, Inflight and Jogging Correction, 3 Speed Fill, Up to 10 Batching Stages: Fill, Dump, Wait and Pulse stages		
Setpoints		-	8			
Analogue Output		-		1 (Optional Module)		
Additional Communications		-	Optional Modules RS232/RS232 RS232/RS485 RS485/RS485		/RS232 /RS485	
Button Input		-	4 Buttons (Optional Module)			
		R420		R423		
Case Materials		ABS Panel Mount		Stainless Steel Flush Mount		
Packing Weights		Indicator: 1kg		Indicator: 1.2kg		
Optional Mounting		ABS desk mount Stainless steel bracket for wall mounting Stainless steel stand for pole or wall mounting		-		