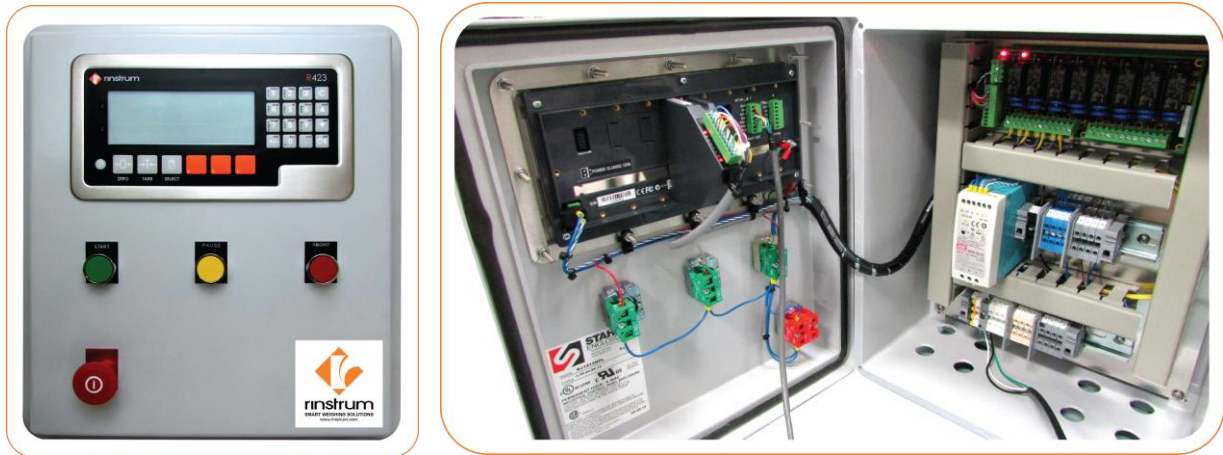


R423 Standard Batch Controller Data Sheet



- 100,000 d @ 0.25 μ V/d
- Fiberglass Standard, Polycarbonate optional, other housing options*
- Completed cabling within the unit.
- Viewer Software for configuration and diagnostics.
- Save400 software for cloning applications.
- 8 I/O Standard, up to 32 I/O can be added.
- Internal Free Running setpoints available in addition to the Batching

The R423 Batch controller is designed specifically for filling and dosing applications. It can be used in bag filling as well as it has the option to show a bag/batch counter on the LCD. It can be used in negative filling or downweighing applications as well. The standard unit has 8 I/O and 3 front panel operators with 1 mushroom E-stop. A standard 24 VDC power supply is used to power the instrument, relays and buttons. Relay outputs are set for a 24VDC control voltage however they can quickly be toggled to source 120/240 VAC to suit the desired application requirements. Color coded terminals are used to designate 24 VDC versus 120 VAC. A M4301 is utilized to drive the relays and pushbuttons. Adding a M4311 would allow expansion for additional buttons and controls.

Two cabinets are available and can be selected according to the environment with either the fiberglass rating NEMA4X or polycarbonate 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 relay outputs rated to 250VAC up to 8A.
- **DIN rail mounted 120-240VAC Power Supply**
- Emergency Stop and coloured buttons configured for Start, Pause & Abort
- 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: M4301 included, M4311 optional. *M4223 can be added to enhance programmability add CSV DSD and other features.*

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

Smart Weighing

Superior Diagnostics

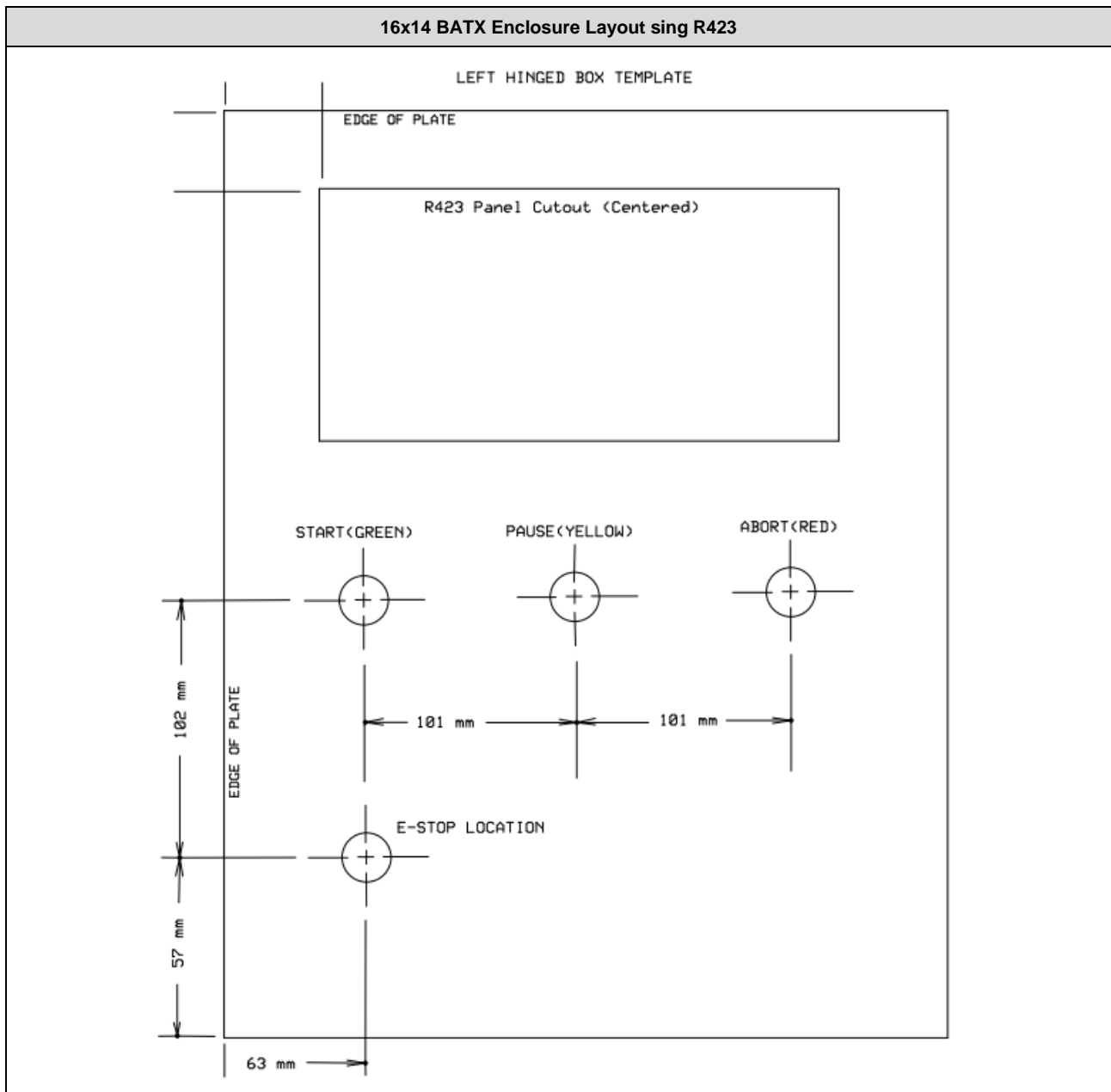
R400 series indicators have a range of diagnostic tools and features that aid system commissioning and maintenance.

- **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	10,000 d @ 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	+/- 2.0mV/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 $\pm 8,388,608$ 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 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	120/240 VAC (10 A cartridge Fuse w/ 1 spare)		
Input Power	Input: 120/240VAC 50/60Hz Output: 24 VDC 2.5A / 60Watt		
Optical Data Communications	Magnetically coupled infra-red communications		
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 – Default Setting: F1 = Start F2 = Pause F3 = Abort		
Operating Modes	Single Range, Dual Range and Dual Interval		
Battery Backed Clock Calendar	Battery life 10 years minimum		
Application Software	K410	K411	K412
Functions	1 Material	6 Material	10 Material
	3 fixed batching stages -fill, dump and pulse 3 Speed Fill	Up to 10 Batching Stages 3 Speed Fill, Fill, Dump & Pulse stages	
	Inflight & jogging correction Negative batching Batch suspend		
Products/Recipes	100 Recipes		
Set points*	8 Standard, Expandable to 32*.		
Analogue Output *	1		
Additional Communications *	Module: RS232/RS232 Module: RS232/RS485 Module: RS485/RS485		
Button Input	3 Buttons 24 Volt contacts.		
Data Storage Device *	1		
Ethernet *	1		
Enclosure/Housing Options	FBG	POLY (optional)	
Case Materials	Fiberglass	Polycarbonate	
Environmental IP Rating (panel mounted or with rear boot)	NEMA 4X	NEMA4 (IP66)	



Specifications are subject to variation for improvement without notice. Illustrations are for reference only. Layouts may vary based on application.

*Optional modules

Console dimensions

Fiberglass (std)	16 in x 14 in x 8 in (400 mm x 350 mm x 200 mm)
Polycarbonate	16 x 14 x 7 (400 mm x 350 mm x 180 mm)
Powder coated steel*	16 in x 14 in x 8 in (400 mm x 350 mm x 200 mm)
Stainless steel*	16 in x 14 in x 8 in (400 mm x 350 mm x 200 mm)

Please contact Rinstrum to discuss your configuration requirements.

*Optional Enclosures

