



Multi-line Display Conf

EAE R420

Configure for your application and environment

R400 SERIES

Industrial Weight Controller

- Versatility that enables:
 - Connectivity
 - Traceability
 - Process Control
 - Simple Filling
 - Single Ingredient Batching
- ABS or Stainless Steel Models
- Configurable & Flexible
 - No need to write sophisticated programs or learn proprietary programming languages





R400 SERIES | Industrial Weight Controller

FEATURES

FEATURES		RALL	RAIL
Panel Mount		•	•
Desk Mount/Enclosure		• IP65 Rated	• IP66 Rated
Enclosure	Hi Tech Plastic Alloy	•	-
	Stainless Steel	-	•
Dower	110-240 VAC	•	•
Power	12-24 DC	Optional	Optional
# of Load Cells	@ 350 Ohm	16	
# 01 Load Cells	@ 700 Ohm	32	
Supplied Communication Port		RS232 Bidirectional & RS485 Transmit Only	
Optional Modules (Max of four modules can be used)	C4201*	RS232 Bidirectional & RS232 Transmit Only	
	C4202*	RS232 Bidirectional & RS485 Transmit Only	
	C4203*	RS485 Bidirectional & RS485 Transmit Only	
	C4221	Wired Ethernet	
	C1400	Profibus Interface	
	C4401	Analog Output	
	C0200	Bluetooth	
	C0081	20mA Converter	
	C4901	Relay Output PCB	
	C4301	8 Input/Output (1-8)	
	C4311	8 Input/Output (9-16)	
	C4321	8 Input/Output (17-24)	
	C4302	8 Input/Output (25-32)	
	K401/K402 use	se a max of 8 inputs & 8 outputs	
Function Inputs		Up to 8	
Weight Related Set Points		Up to 8	
Networking		•	
Clock Calendar		•	
Custom Printing		•	
Clear Protective Covers		Optional (R420)	

^{*}If you use the supplied commication port, you can only add one serial communication module. If you do not use the supplied communication port, you can add up to two serial communication modules.



Simply build your controller's capabilities by selecting the indicator with the appropriate application software. Populate up to four slots on the main pc board to include modular capabilities such as serial output options, Ethernet, Profibus, Bluetooth, analog output, and up to eight weight related setpoints (with external relay output options available). Also available are up to 32 isolated digital I/O ports.

It's as easy as 1, 2, 3....

Build your controller's capabilities

Select an indicator/enclosure to meet your application's environmental needs

High Tech Plastic Alloy IP65 Rated R420 Stainless Steel IP66 Rated R423

Choose the appropriate application software

K401 - General Weighing with 1 Product Database

K402 - SMART Weighing with 250 Product Database

K410 - SMART Filling Indicator with 100 Recipes (Products)

Populate up to four slots on the main pc board to provide modular communication cabilities, process control, single ingredient filling, or data management

Modular Accessories Include:

Analog Output

Serial output Bluetooth

Ethernet Up to 8 weight related set points

Up to 32 isolated digital I/O

Profibus External relay outputs

20 mA 8 Inputs/Outputs

Application Software	K401	K402	K410
Unit Switching	•	•	-
Dual Range %	•	•	•
Products/Recipes	1	250	100
Hold & Peak Hold	•	•	-
Counting	•	•	-
Report Printing	•	•	•
Totalizing Printing	•	•	•
Logic Setpoints	•	•	•
Positive/Negative Batching	-	-	•
Time Based Batching	-	-	•
Batch Suspend	-	-	•
Fill, Dump, & Pulse Stages	-	-	•
Inflight Jogging	-	-	•
Batching	-	-	3 Stages
Materials	-	-	1
Speeds for Fill	-	-	3

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Superior Housings: To provide flexibility to fit the environment, two housing types are available: the R420 (high tech plastic alloy) and R423 (stainless steel). Both housings are designed with extra attention to detail to increase their reliability in the field, thereby reducing unplanned downtime and servicing costs. A high impact polycarbonate lens protects the LCD on each housing.

Panel, Desk, or Wall Mount:

The R420 and R423 are available as a panel mount or a desk/wall mount with enclosure. Choose the design type based on your needs.



R423 w/Stainless Enclosure and Desk/Wall Mount





R420 with Desk Mount

Multi-Line Display: Assist the operator by displaying information such as current weight, count, piece weight, total weight, and product name.

Simple setup: Use the easy to navigate front panel alpha-numeric keypad for configuration or CASLink,



which consists of a magnetically coupled infrared port on the controller's front panel and CAS PC configuration software.

Robust I/O: Designed for direct connection into PLC's, or direct drive up to 400mA each with up to 32 I/O control

Networking Capability: Support for both Ethernet and Profibus to improve integration into larger control systems.

Application Software

K401 - General Weighing with 1 Product Database

The K401 is a versatile general purpose indicator. Its modular design can be simply configured to meet connectivity, traceability, process control, and simple ingredient filling needs.

- One product database
- Counting w/piece weight entry
- PLC Integration
- Optional serial outputs, Ethernet, Profibus, & Bluetooth
- Analog output
- Set points
- Reporting
- Custom printing

Negative/positive batching

• Dump to time or weight

• Batch suspend

K402 - SMART Weighing with 250 Product Database

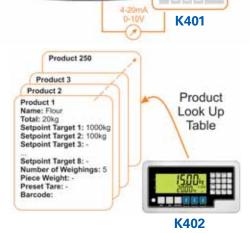
The K402 adds multiple-product databases - up to 250 - to the capabilities of the K401. It is ideal for applications where there are a variety of products that have product parameters that need to be recalled. Powerful product configuration allows for parameters to be stored for each product.

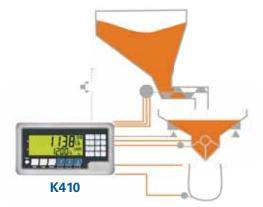
- Set point target (up to 8 per target)
- Piece weight
- Unit conversions
- Full accumulation data

K410 - SMART Filling Indicator with 100 Recipes (Products)

The K410 is a single material filling application used for dosing, bagging, and silo discharge.

- 100 recipes (products)
- 3 set batching stages fill, dump, & pulse
- 1 material/3 speed fill
- Fill correction using jogging or in-flight



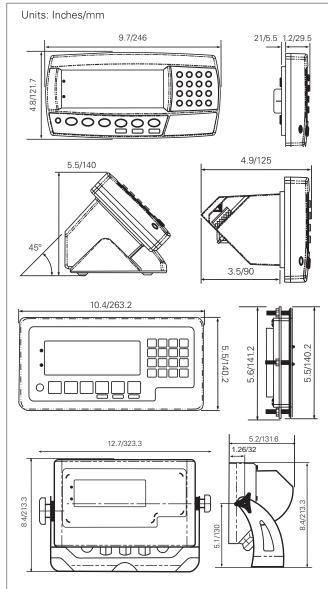


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SPECIFICATIONS

SELCIFICAL	10140		1	
Housing		High tech plastic alloy	Stainless steel	
Environmental IF	Rating	IP65	IP66	
Resolution		Up to 100,000 divisions, min - 0.25 uV/d		
Zero Cancellation	n	±2.0 mV/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		24 bit Sigma Delta with ±8,388,608 internal counts		
Operating Environment		Temperature: -10° ~ +50°C / 4°F ~ 122°F Humidity: <90% non-condensing		
Display		LCD with 4 alpha-numeric displays & LED backlighting		
		Primary display: 6 x 28.4mm (1.12") high digits with units and annunciatiators		
		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 & Calibrat	ion	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 w/mem. feature		
Power	AC	AC power supply Input: 110/240VAC 50/60I Output: 12VDC 15VA	Hz	
	Battery	2.5AH NiMH rechargeabl Charger Input: 110/240VA Output: 12VDC	, .	
Optical Data Communications		Magnetically coupled infra-red communications Conversion cables available for RS232 or USB		
Correction		10 point linearity correction		
Serial Outputs		Included - Serial 1A: RS-232 serial port for remote display, network or printer supports.		
		Included - 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		
Clock Calendar		Battery life 10 years minimum		
Packaging Weights		Indicator: 1kg (35 oz)	Indicator: 1.2kg (42 oz)	
Approvals		NTEP: 11-050		
Warranty		2 Years		
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DIMENSIONS



OPTIONS

- Wall Mount Stainless
- Clear Protective Covers (R420)
- Battery Pack NiMH
- CASLink USB Cable
- Physical Seal
- RS232/485 Modules
- Ethernet
- Profibus
- Analog Output
- Input/Output Modules
- Relay Outputs



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