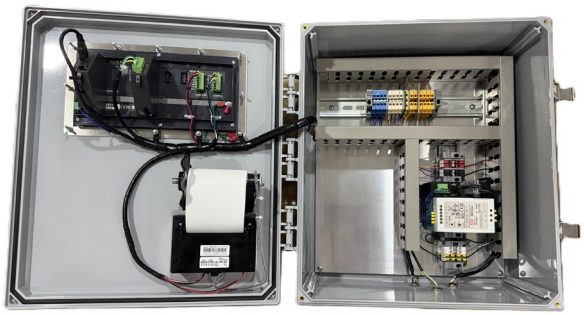
R423 Truck Controller Data Sheet



- 100,000 d @ 0.25 µV/d
- Polycarbonate, IP66 Enclosure
- Completed cabling within the unit.
- Viewer Software for configuration and diagnostics.
- Save400 software for cloning applications.
- Integrated thermal tape printer (3 inch)
- Compatible with M400 Accessory cards and other Rinstrum options.
- D700/D800 Remote display compatibility with traffic light control.

The K401, K404, K405 and L404 are designed for truck weighing. They allow for a range of operational scenarios based on the version selected. Dedicated keys simplify the operator interface. Additionally, the alpha-numeric keypad allows for easy entry of tare weighs and truck IDs. Console includes a stainless-steel panel mounted weight indicator and built-in printer.

The following operational scenarios can be handled on the kiosk depending on the firmware version:

- Print the weight of the truck on the scale.
- Weigh a truck in a single pass using its tare weight.
- Weigh a known truck with a stored Truck ID and preset tare and accumulate the statistics on that truck ID.
- Two pass weighing with a weigh in followed by a weigh out. The ticket will show time/date, weigh-in, weigh-out and net weights.
- Automatic temporary Truck ID to simplify weigh-in/weigh-out for fast weighing throughput. The temporary Truck ID is removed once the weigh-out is complete.
- Clicker system for truck identification.
- Web interface.

R400 Indicators are ideal for weight bridges:

- Isolated communication modules for protection against lightning.
- All accessory modules can be swapped without recalibration.
- Indicator configuration and setup can be reused and easily uploaded using the opto-link on the front panel.

Color coded terminals are used to designate 24 VDC versus 120 VAC.

The standard polycarbonate enclosure is IP66 (NEMA) rated. Other enclosures available on request.

A typical configuration would include:

- Door mounted indicator.
- Door mounted printer.

Cabled and with a basic configuration for the application firmware that has been selected.

Smart Weighing

Superior Diagnostics

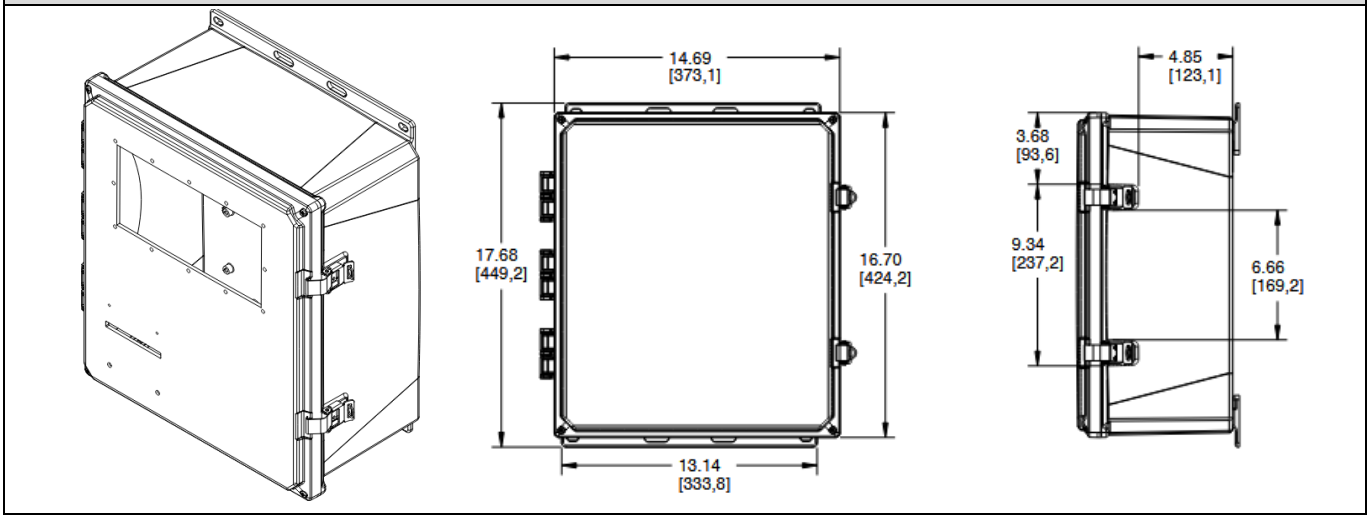
R400 series indicators have a range of diagnostic tools and features that aid system commissioning and maintenance.

- **Millivolt Test Functions and IO Testing**
- **Modules can be swapped** in and out without recalibration of the indicator, saving time and effort
- **Red 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, AM-5962 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 ±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**	**K404**	**K405**	**L404**
Functions		Single Pass Useful for simple truck applications where GTN is required	250 Trucks Dedicated Truck Key(f1) Specialized Truck Dockets Weigh in/ Weigh Out	250 Trucks For 10x10 Dedicated Truck Key Specialized Truck Dockets Static axle weighing	9999 Trucks (requires M4223) Dedicated Truck Key Specialized Truck Dockets Web Interface Master/Slave Feature (with 2nd Controller) Clicker ACC Option Truck, Destination and Product database
Enclosure/ Housing Options		**POLYCARBONATE**			
Case Materials		Polycarbonate, Stainless Steel*, Powder Coated Steel* (*optional)			
Environmental IP Rating (panel mounted or with rear boot)		NEMA4 (IP66)			

Dimensions


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

*Optional modules

Console dimensions

Polycarbonate	16 in x 14 in x 7 in (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