X320 – Data Sheet

IP68 + IP69K

- IP68 and IP69K rated
- 3 band check weighing
- Built in check weigh display
- AC, DC and rechargeable NiMH battery options
- Trade Approved Australia/Europe/USA
- Built-in RS232 communications port
- Tough enclosure - impact resistant composite alloy housing

The **X320** combines innovation in **industrial design** and **engineering excellence** to create an instrument that is ideal for use in food processing, automotive, chemical or pharmaceutical applications or applications that require **reliable operation in harsh environmental conditions**. The X320 indicator builds on Rinstrum's already successful R320 indicator.

Constructed of a high tech plastic alloy that is:

- Food grade
- Chemical resistant
- Temperature resistant
- Impact resistant

Double 'o' ring seal which provides superior performance over traditional stainless steel enclosures.

IP69K rating: the industry's highest environmental protection rating - designed to withstand cleaning with high pressure water jets (1400psi) at high temperatures (up to 80°C) from multiple angles.

Built-in check weigh function – with 3 coloured high intensity LEDs

Isolated outputs - Over, Under, Pass. High side driver up to 400mA, allowing direct connection to PLCs and external actuators to be driven directly

Customisable - Programmable function key and configurable printing

Smart Weighing

What makes this housing exceptional?

The design - sealed and tough

- Double O ring to seal the outer housing
- Single piece front panel to protect the display and avoid leaks
- Capacitive keys with no moving parts
- No glued membrane to fail
- No traditional keypad to damage
- No external parts using adhesive
- Sturdy design with enhanced wall strength

The material - high tech composite alloy

..now that's smart weighing.

K376 Cross Grade: Certain features are specifically available in the cross graded versions of K376 firmware, see table below for feature set. Cross grade firmware can be downloaded off the website and does not require a passcode.

Firmware Feature Summary:

Firmware Version		K376	K376-LIVE
Print (Serial RS232)		Advanced	
Function Key	**Counting**	-*	-
	Manual Hold	C	S
	Peak Hold	-*	-
	Totalization	S	S
	Basic Check Weighing	S	-
Products		1	-
Ring Network		S	S
Bluetooth Accessory		A	A
Set Point Output		3	-
Units lb./ kg switching		S	S
Units lb./ kg / oz / g Switching		S	-
Units on Power key or Function key		S	S
Gravity Compensation		S	-
Linearization		-*	-
Animal Weighing		C	S
Quick Calibration		S	S

S – Standard Accessory   A – Optional Accessory   ^ - Basic Over/ Under Setpoints

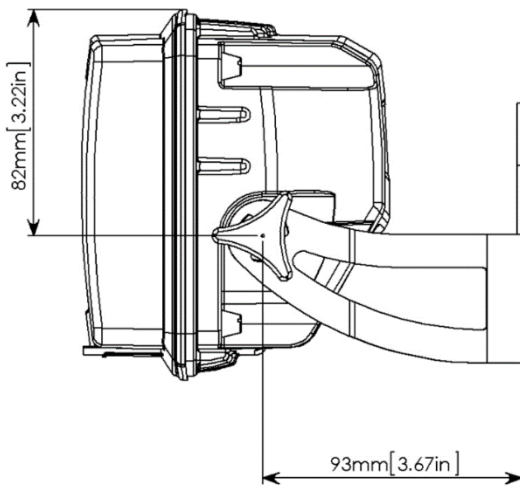^^- Advanced Set Points   C – Cross Grade   *Contact us if you need this feature.
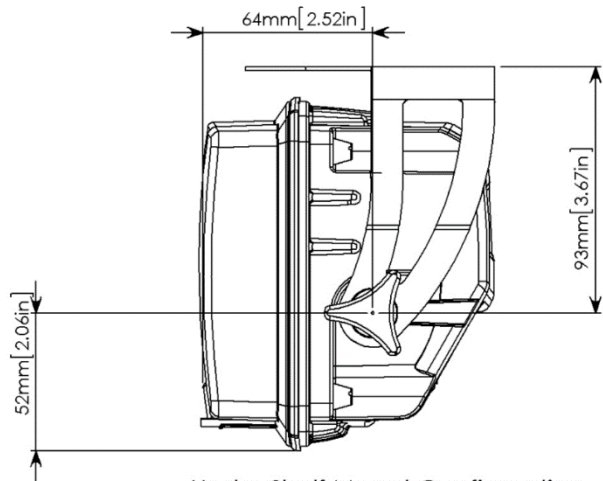
Specifications

X320	
Resolution	Up to 60,000 divisions, minimum of 0.25µV/division
Zero Cancellation	± 2.0mV/V
Span Adjustment	0.1mV/V to 3.0mV/V full scale
Excitation	5 V for up to 4 x 350 or 8 x 700 ohm load cells (4-wire or 6-wire plus shield) Max total load cell resistance: 3,500Ω (4x350Ω Nontrade 8x350Ω)
A/D Type	24bit Sigma Delta with 8,388,608 internal counts 20 updates/second
Operating Environment	Temperature: –10° to +50°C ambient (14° to 122° F) Humidity: 100% IP69K
Display	LED Backlit LCD with six 20mm (0.8") high digits with units and annunciators
Setup and Calibration	Full digital with visual prompting in plain messages
Digital Filter	Sliding window average from 0.1 to 4.0 s
Zero Range	Selectable from ± 2% to ± 100% Full Scale
Standard Power Input	12 to 24VDC, 9.6,12 and 24V batteries (2.5 VA max) ON/OFF key with memory feature

Variants	**AC**	AC Power supply: 110/240VAC 50/60Hz in 12VDC 1.2A out
	Battery	12V battery pack (rechargeable NiMH)

Case Materials	PC+Polyester alloy, PBT, Silicon Rubber, SS304 Stand
Packing Weights	Basic Indicator: 2.0kg
Optical Data Communications	Magnetically coupled infra-red communications Conversion cables available for RS232 or USB
Serial Outputs	RS232 automatic transmit, network or printer outputs. Transmission rate: 2400, 4800, 9600 or 19200 baud
Battery Backed Clock Calendar	Battery life 10 years minimum
Input/Outputs	3 Outputs - isolated high side drive outputs (400mA each at 12-24VDC) 1 Input
Set points	2
Approvals	4,000 d @0.8uV/d NMI (S-420),OIML R76 10,000d III/III L NTEP 08-072 A1

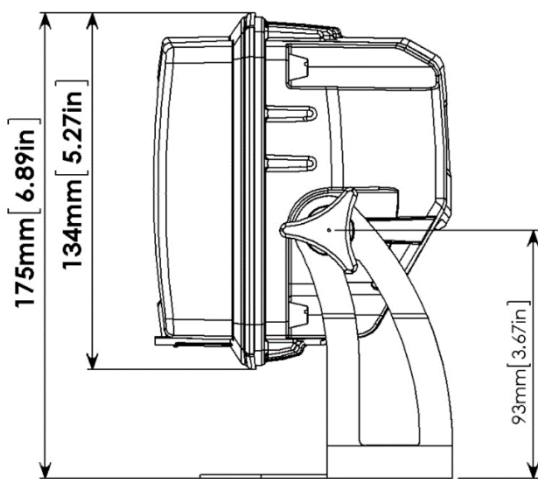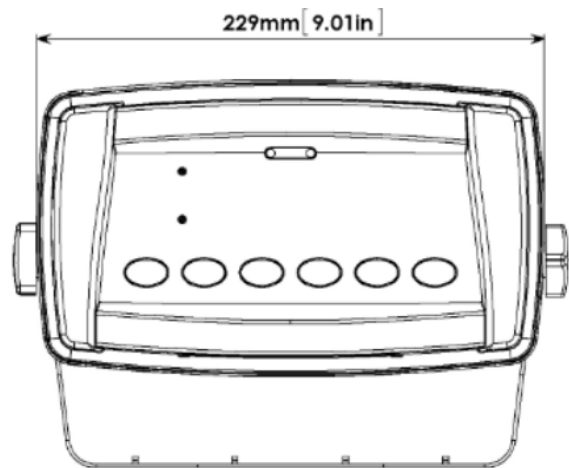| **Firmware**	**K376**	**K376-LIVE**
Functions	display test, Unit switching, totalising, high resolution, Check weighing	display test, Unit switching, totalising, high resolution, Live stock weighing
Number of products for check weighing	1	
Assignable Function Keys	1	

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Mounting Options

82mm[3.22in]

93mm[3.67in]

Wall Mount Configuration

64mm[2.52in]

93mm[3.67in]

52mm[2.06in]

Under Shelf Mount Configuration

175mm[6.89in]

134mm[5.27in]

93mm[3.67in]
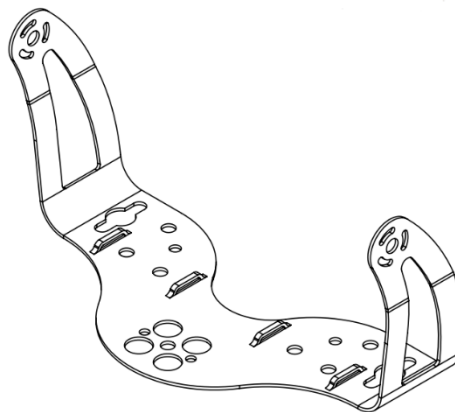
Desk Mount Configuration

229mm[9.01in]

Desk Mount Front View

M3013 Bracket

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