X320





designed and built to last in harsh environments



The \mathbf{X}_{320} combines innovation in industrial design and engineering excellence to create a product that is ideal for use in heavy wash down applications and rugged environments.

- · Food processing
- Automotive
- Chemical
- Pharmaceutical applications
- Applications that require reliable operation in harsh environmental conditions

and nothing gets in!

Rated to IP69K - the industry's highest environmental protection rating. Meaning the **X**320 has been designed to withstand cleaning with high pressure water jets (1450psi) at high temperature (up to 80°C) from multiple angles.

Tough enclosure - the \mathbf{X}_{320} is made of an impact resistant composite alloy and designed to withstand knocks.



X320 with optional pole mount.

(exceptional housing)



What makes this housing exceptional?

The design - sealed and tough

- Double O ring to seal the two clams
- Single front panel to protect the display and avoid leaks
- Capacitive keys therefore 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

- Food grade
- · Chemical resistant
- Impact resistant





The **X**320 indicator builds on Rinstrum's already successful **R**320 IP65 indicator. It provides:

- General purpose weighing functions;
- Clear highly visible display 20mm LCD display with LED backlight
- Customise Programmable function key and configurable printing
- Versatile power options AC, DC and rechargeable NiMH battery options
- Built-in check weigh function 3 coloured high intensity status LEDs
- Three outputs Over, Under, Pass. High side driver up to 400mA, allowing for example, direct connection to PLCs and for external actuators to be driven directly
- Built-in RS232 communications port
- Flexible mounting options stainless steel desk/ wall mount and pole mount

The use of a capacitive keyboard allows the front panel to be constructed as a single piece. The \mathbf{X}_{320} keypad senses an operator's finger, whether gloved or not, from the inside of the enclosure. There are no moving parts to wear out, no glue to deteriorate and no keypad tails to fail due to vibration or corrosion. The strength of the single front fascia increases the durability of the instrument, protecting the LCD and electronics from external impacts.

easy transfer of setup

The magnetically coupled opto-link on the front panel provides a convenient temporary connection to a laptop for:

- Transfer of setup and calibration information
- Download of software upgrades

No need to access rear of the indicator.



X320 THAT'S WEIGHING SMART

Performance					
Resolution		Up to 30,000 divisions, minimum of 0.25μV/division, 20 updates/second			
Zero Cancellation		+/- 2.0mV/V			
Span Adjustment		0.1mV/V to 3.0mV/V full scale			
Excitation		5V for up to 4 x 350 or 8 x 700 ohm load cells (4-wire or 6-wire plus shield) Maximum combined load cell resistance: 3,500 ohms			
A/D Type		24bit Sigma Delta with 8,388,608 internal counts			
Operating Environment		Temperature: -10 to +50°C ambient Humidity: 100% Storage: -20 to +50°C ambient IP69K and IP68			
Display					
Display		LED Backlit LCD with six 20mm 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 seconds			
Zero Range		Adjustable from +/- 2% to +/- 20% of full capacity			
Power Input					
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)			
Features					
Optical Data Communications		Magnetically coupled infra-red communications. Conversion cables available for RS-232 or USB			
Correction		Ten point linearity correction			
Serial Outputs		RS-232 automatic transmit, network or printer outputs Transmission rate: 2400, 4800 or 9600 baud			
Assignable Function Key		1			
Input/Outputs		3 Outputs - transistor drive outputs (400mA total at 12-24VDC)			
Battery Backed Clock Calendar		Battery life 10 years minimum			
Functions		Unit switching, counting, manual hold, peak hold, live weight and totalising Check weighing – low, pass, high (3 colour status high intensity LEDs) Configurable print format			
Setpoints		3			
Remote Input (Shared with Comms Port)		1			
Case Materials		PC+Polyester alloy, PBT, Silicon Rubber, SS304 Stand			
Packing Weights		Basic Indicator: 2kg			
Optional Mountings		Stainless steel desk/wall mount Stainless steel pole mount			

Weight Indicator			
Side View	Front View	Desk/Wall Mount	Pole/Wall Mount
	250 10		



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