

X320 – Data Sheet



- 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



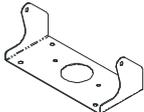
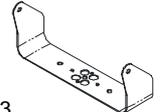
What makes this housing exceptional?

The design - sealed and tough

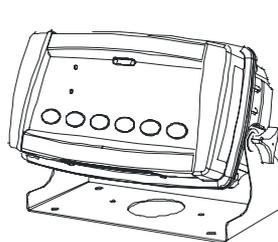
- Double O ring to seal the outer housing
- Single piece front panel to protect the display and avoid leaks
- Capacitive keys with no moving parts
- No glued membrane to fail
- No traditional keypad to damage
- No external parts using adhesive
- Sturdy design with enhanced wall strength

The material - high tech composite alloy

..now that's smart weighing.

| | | X320 | | |
|--------------------------------------|----------------|--|-------------|------------------------------|
| Resolution | | Up to 30,000 divisions, minimum of 0.25 μ V/division. (K307 up to 60,000 divisions) | | |
| Zero Cancellation | | ± 2.0 mV/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) Maximum total load cell resistance: 3,500 ohms | | |
| A/D Type | | 24bit Sigma Delta with 8,388,608 internal counts 20 updates/second | | |
| Operating Environment | | Temperature: -10° to $+50^{\circ}$ C ambient (14 $^{\circ}$ to 122 $^{\circ}$ F) Humidity: 100% IP69K and IP68 | | |
| 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 $\pm 2\%$ to $\pm 100\%$ 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) | | |
| 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 or 9600 baud | | |
| Assignable Function Keys | | 1 | | |
| Input/Outputs | | 3 isolated high side drive outputs (max 400mA each at 12-24VDC) 1 Input | | |
| Battery Backed Clock Calendar | | Battery life 10 years minimum | | |
| Functions | | Unit switching, counting, manual hold, peak hold, live weight, totalizing | | |
| Case Materials | | PC + Polyester alloy, PBT | | |
| Packing Weights | | Basic Indicator: 2kg (4.4lb) | | |
| Optional Mounting | | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Stainless steel bracket: Desk/wall M3012</p> </div> <div style="text-align: center;">  <p>Pole M3013</p> </div> </div> | | |
| | | K304 | K306 | K307 |
| Approvals | | 4,000 d @ 0.8uV/d NMI (S-420),OIML R76 | | 10,000d III/II L NTEP 08-072 |
| | | FCC, CE, C-tick | | |
| Linearity Correction | | Ten point | - | - |
| Range | | Single | Dual | Single |

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



Shown with M3012 stand

