

# Scaleshouse P100

SMART WEIGHING SOLUTIONS



# designed and built to last in harsh environments



The X320 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 X320 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 X320 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 **X320** indicator builds on Rinstrument's already successful **R320** 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 **X320** 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.

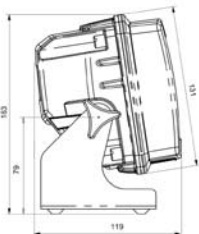
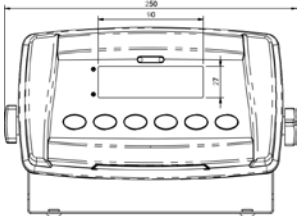
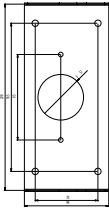
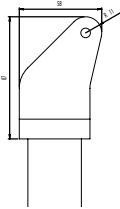
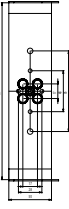


# Scaleshouse P100

THAT'S WEIGHING SMART



Performance		
Resolution		Up to 30,000 divisions, minimum of 0.25 $\mu$ V/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	Dimensions in mm (1 inch = 25.4 mm)		Mounting Options	
Side View	Front View	Desk/Wall Mount	Pole/Wall Mount	
				

# VAAKATALO

**Vaakatalo Oy**  
**Vestonkatu 11**  
**33580 TAMPERE**  
**info@vaakatalo.com**  
**www.vaakatalo.com**