



CW-90 & CW-90X

With the CW-90/90X's operator-friendly software, simply place your product or target weight on the scale, press "target," and you're ready to checkweigh. The bright, oversized LED display and vibrant "Under," "Over" and "Accept" lights provide the operator with necessary information at a glance.

RICE LAKE®
WEIGHING SYSTEMS

Commitment Beyond Measurement®

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Specifications subject to change without notice

Rice Lake Checkweigher Matrix

	CW-90X	CW-90	CW-80	IQ plus® 2100
Load Cell	Stainless Steel, Hermetically Sealed, IP69K, NTEP 1:5000	Aluminum, NTEP 1:5000	Stainless Steel, IP67, NTEP 1:3000	Aluminum, NTEP 1:5000
IP Rating on Indicator	IP69K	IP66	IP66	IP66
Keypad Construction	Piezo	Membrane	Piezo	Piezo Switches
Gore® PreVent® Breather Vent	Standard	Standard	No	Standard
Configurable with Revolution® III	Standard	Standard	No	Standard
Configurable Print Format	Standard	Standard	No	No
Audit Trail	Standard	Standard	No	No
Approvals	Indicator: NTEP, Measurement Canada Indicator Pending: UL/CUL, CE, OIML Base: NTEP, Measurement Canada Base Pending: OIML Indicator/Base as System: NSF	Indicator: NTEP, Measurement Canada Indicator Pending: UL/CUL, CE, OIML Base: NTEP, Measurement Canada Base Pending: OIML Indicator/Base as System: NSF	Indicator: NTEP, Measurement Canada, UL/CUL, European Approval, EC Type Approval, OIML Base: NTEP, Measurement Canada	Indicator: NTEP, Measurement Canada, UL/CUL Base: NTEP, Measurement Canada
Time and Date	Standard	Standard	No	No
ID Storage	50 (target, over, under, tare, unit of measure, description 1, description 2)	50 (target, over, under, tare, unit of measure, description 1, description 2)	300 (over, under, tare, unit of measure)	No
Ethernet	Wired or Wireless with Option Card	Wired or Wireless with Option Card	No	No
Fiber Optics	With Option Card	With Option Card	No	No
USB	With Option Card	With Option Card	No	No
Digital I/O on CPU Board	4 Configurable I/O	4 Configurable I/O	Optional, Requires Different CPU	Two Digital Inputs for Remote Zero, Print and Units
LED Display	0.8in (20.3mm)	0.8in (20.3mm)	0.8in (20.3mm)	0.8in (20.3mm)
Test Menu	Standard	Standard	No	No
Custom Software Available	Consult Factory for Quote	Consult Factory for Quote	No	No
Warranty	3 Year Limited	2 Year Limited	2 Year Limited	2 Year Limited
Power for up to (8) 350 Ohm Load Cells	Standard	Standard	Standard	Standard
Updates Per Second	Adjustable 7.5 to 960	Adjustable 7.5 to 960	25	3.76
DC Power Supply	9-36VDC Option	9-36VDC Option	No	No
Ability to Upgrade Software in the Field	Standard	Standard	No	No

CW-90X



REVOLUTION
SCALE SOFTWARE

MCLEAN SCALE Co.

LTD. since 1974

ISO9001 * Measurement Canada Accredited



Facing Hostile Environments

Extra-Strength Keypad

Made to withstand sharp knife-point contacts as well as contaminants and liquids, Rice Lake's CW-90X features an amazingly tough piezo keypad. Its extra-strength material is the most durable in the industry, ensuring your scale will continue to work through any challenge.

IP69K—Your Best Defense

Manufacturers with harsh production environments look for the IP69K rating to provide the highest level of protection available. The CW-90X uses a hermetically sealed load cell and stainless steel indicator, which have both earned IP69K certification, guaranteeing protection from repeated high temp/high pressure washdowns. Complete with 304 stainless-steel construction, the CW-90X will help meet all of your HACCP and food industry requirements.

NSF Approval

In our commitment to the food processing industry, the CW-90X is fully compliant to NSF standards. NSF International provides certification* services for equipment used in the processing of meat and poultry. These standards have been specified by the USDA to be sure the highest quality equipment is used for food manufacturing purposes.



*NSF/ANSI/3-A Standards 14159-1, -2 and -3.



Display contrast can be easily adjusted to suit any environment



The tough piezo keypad offers exceptional durability, unaffected by sharp knife points or other abrasive treatment.

Performance

CW-90X

Built to withstand rough handling and extreme washdown requirements, the CW-90X will enhance productivity and reduce cost of ownership. Increase profits with the most dependable and durable equipment in the industry.

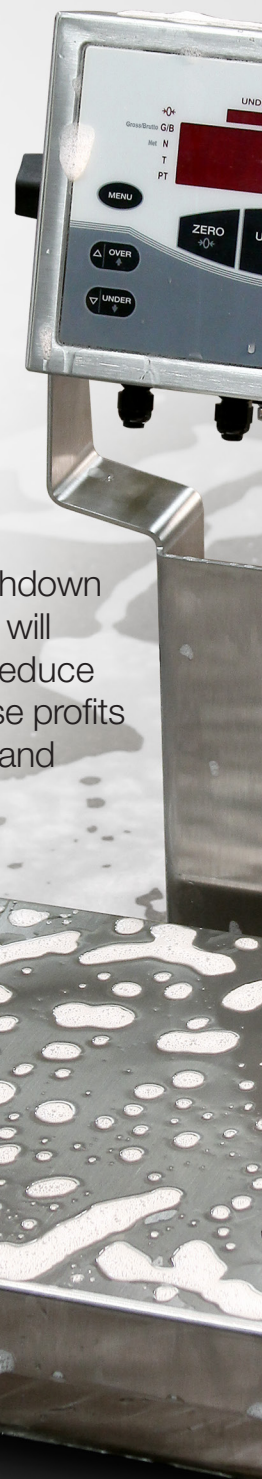
Predicting Growth? Get

WeighVault®

for CW-90/CW-90X

WeighVault for your PC surpasses the CW-90/90X's 50 ID limitation and eliminates front-panel entry by letting users add, edit, and access IDs through a PC. As transactions occur, WeighVault collects data from single or multiple checkweighers and provides detailed reports which can be exported to Excel®, Word®, or PDF. For more information regarding WeighVault, please visit: www.ricelake.com/weighvault

Excel is a registered trademark of Microsoft Corporation.



e Under Extreme Pressure



Durable

The CW-90X is built for the demanding, heavy-duty environments of today's food processing industry. Starting with its IP69K rating, you won't find a more robust checkweigher on the market. The hermetically sealed stainless steel load cell and watertight enclosure are guaranteed to withstand the harshest washdown environments. The CW-90X is constructed of 304 stainless steel with a five-point overload system, helping prevent load cell damage and provide the most economical solution to a majority of applications.

Sharp knife points are no match for the smooth, hardened surface and non-tactile key function of the unique piezo keypad.

The CW-90X also features the unique Gore® PreVent® breather vent with GORE-TEX® material. This device is designed to let air flow in and out of the indicator while simultaneously blocking water and dust. In areas of extreme temperature change, this breakthrough technology helps eliminate the possibility of damaging condensation. With so many enhanced features, the customer-driven design of Rice Lake's CW-90X is built to outlast the competition, hands down.

Practical

The CW-90X has the capacity to store up to 50 individual IDs to recall previously stored information. It can also be used with optional Ethernet, USB, and fiber optic ports to capture production floor data.

When a standard size scale base or column doesn't quite fit your needs, Rice Lake is positioned to deliver a custom solution that's quick and cost effective for nearly any weighing application.

Simple

Users of Rice Lake's CW-90X will find it to be incredibly simple while offering a powerful assortment of useful features. Program the CW-90X to accept product at set values and then use the checkweigher by relying solely on the bright over/under lights. A red light displays an under weight condition, yellow is over, and a green light indicates the product is within the specified target.

Rice Lake's CW-90X puts today's demanding checkweighing needs in an exceptionally user-friendly package.

Eliminate the possibility of damaging moisture with the Gore PreVent breather vent.



IP69K rating and NSF approval make the CW-90X ideal for processing meat and poultry. Enclosures with an IP69K rating must be able to withstand high-pressure and steam cleaning as well as be dust-tight.



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OVER/UNDER WASHDOWN CHECKWEIGHER



CW-90X is designed for easy cleaning in the food processing industry and has NSF approval.



115 VAC OR 230 VAC

		Platform Dimensions	Column Height
5lb	5 x 0.001 lb (2.5 x 0.0005 kg) or 80 x 0.02 oz	10 x 10in	12in
10lb	10 x 0.002 lb (5 x 0.001 kg) or 160 x 0.05 oz	10 x 10in	12in
25lb	25 x 0.005 lb (10 0.005 kg) or 400 x 0.1 oz	10 x 10in	12in
25lb	25 x 0.005 lb (10 0.005 kg) or 400 x 0.1 oz	12 x 12in	12in
50lb	50 x 0.01 lb (25 x 0.005 kg) or 800 x 0.2 oz	12 x 12in	12in
100lb	100 x 0.02 lb (50 x 0.01 kg) or 1600 x 0.5 oz	12 x 12in	12in

230 VAC CE marked/OIML approved

		Platform Dimensions	Column Height
3kg	3 x 0.001 kg	254 x 254 x 108mm	305mm
6kg	6 x 0.002 kg	254 x 254 x 108mm	305mm
15kg	15 x 0.005 kg	254 x 254 x 108mm	305mm
15kg	15 x 0.005 kg	305 x 305 x 108mm	305mm
30kg	30 x 0.01 kg	305 x 305 x 108mm	305mm
60kg	60 x 0.02 kg	305 x 305 x 108mm	305mm

*Custom sizes available

Standard Features

Indicator:

- Piezo keypad consisting of ZERO, UNITS, PRINT, TARE, OVER, UNDER, ID, TARGET, ENTER, MENU, POWER
- 304 stainless steel, IP69K rated
- Gore™ PreVent® breather vent
- Storage for up to 50 IDs
- Unit of measure: kg, gm, lb, oz, lb/oz
- High-intensity LED display
- Battery-backed time and date
- Two full duplex serial ports
- Configurable print formats
- Audit trail tracking

Scale:

- IP69K, stainless steel hermetically sealed load cell
- 304 stainless steel
- Five-point overload protection

Optional Communications:

- Ethernet, USB or Fiber Optic, WiFi
- Four configurable digital I/Os
- Reflash memory to upgrade firmware

Specifications

Power AC:	Line voltages: 115/230VAC Frequency: 50/60Hz Fused @ 2.5A
Power Consumption:	1.5A @ 115VAC (8W), 0.75A @ 230VAC (8W)
Excitation Voltage:	+5VDC 8 x 350Ω or 16 x 700Ω load cells
Analog Signal Input Range:	-0.5mV/V + 4.5mV/V
Analog Signal Sensitivity:	0.3μV/graduation minimum, 1.5μV/graduation recommended
Measurement Rate:	960, 480, 240, 120, 60, 30, 15, 7.5 per second
System Linearity:	+/-0.01% full scale
Digital I/O:	4 channels on CPU board
Circuit Protection:	RFI, EMI, EFT, ESD and surge protection
Display:	Large 0.8in, 14-segment, six digit high-intensity red LED display with three color over/under bar graph
Status Annunciators:	Designators for %, kg, gm, lb, oz, center of zero, Gross/Brutto, N, T, PT, neg, motion
Operating Temperature:	Legal: 14°F to 104°F (-10°C to +40°C)
Rating Material:	IP69K, stainless steel
Display Resolution:	100,000 graduations maximum
Load Cell:	IP69K, stainless steel hermetically sealed
Warranty:	Three-year limited warranty

Approvals



Measurement
Canada
Approved



R76/2006-GB1-10.02
European Test Certificate GB1385
European EC Type-Approval T5692
Accuracy Class III max.: 10,000



Pending

MCLEAN SCALE Co.

LTD. since 1974

ISO9001 * Measurement Canada Accredited



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London, Ontario N6L1A8 • Canada
TEL: 519-652-9235

www.mcleanscale.com

IQ 2100

P L U S

DIGITAL
BENCH SCALE



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WEIGHING SYSTEMS

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The IQ plus® 2100... Unmatched Features and Value.

The 2100 is ideal for use in general purpose weighing, portioning, and a variety of food processing applications. Stainless steel buttons repel messy ingredient spills and damage by knife point, while the NEMA 4X stainless steel indicator enclosure stands up to frequent washdown. Standard overload stops protect the base during heavy use.

All operations are controlled through two buttons—zero and units. Push-button zero and a full range of units, including lb/oz, offer the flexibility needed for a wide variety of applications.



Attachment bracket is standard for quick, easy portability of both the platform and indicator.

Also available with a tilt stand for table, wall, or under-counter indicator mounting where space is limited.



Standard Features

- NEMA 4X/IP66, 304 stainless steel enclosure
- Large, bold 0.8" Light Emitting Diode (LED) display
- Annunciators: lb, kg, oz, g, negative, motion, center of zero
- One full duplex RS-232 port
- 12" or 18" column, base attachment bracket, or tilt stand for table/wall/under-counter mounting
- 115 VAC operation, 230 VAC available
- Aluminum, single point load cell
- Overload stops on scale base
- Stainless steel, non-tactile feel, zero and units buttons
- Displays units in decimal, lb, kg, oz, lb & oz, and grams
- Automatic print to external printer



Offering the unique capability to read lb and oz simultaneously, the 2100 lends itself to portioning and ingredient weighing. The two-button keypad and vibrant display that is visible from all angles make operation so easy that users are sure to lock in the most accurate weighments.

Options/Accessories

- Stainless steel load cell
- Quick connect cables
- Remote switch

Capacities/Dimensions

Capacity	Platform Dimensions	Shipping Wt.
IQ plus® 2100 with attachment bracket or tilt stand		
50-100 lb (25-50 kg)	12" X 12" (304.8mm X 304.8mm)	26 lb (12 kg)
5-25 lb (2.5-10 kg)	10" X 10" (254.8mm X 254.8mm)	23 lb (10 kg)
IQ plus® 2100 with 12" (304.8mm) column		
50-100 lb (25-50 kg)	12" X 12" (304.8mm X 304.8mm)	28 lb (13 kg)
5-25 lb (2.5-10 kg)	10" X 10" (254.8mm X 254.8mm)	25 lb (11 kg)
IQ plus® 2100 with 18" (457.2mm) column		
50-100 lb (25-50 kg)	12" X 18" (304.8mm X 457.2mm)	40 lb (18 kg)
50-500 lb (25-250 kg)	18" X 18" (457.2mm X 457.2mm)	65 lb (29 kg)
50-1000 lb (25-500 kg)	18" X 24" (457.2mm X 609.6mm)	85 lb (39 kg)
150-1000 lb (75-500 kg)	24" X 24" (609.6mm X 609.6mm)	105 lb (47 kg)

Specifications

Display:	6-digit Light Emitting Diode (LED) display 7-segment, 0.8" (20mm) digits
Power Consumption:	115 VAC @ 70 mA, or 230 VAC @ 35 mA, 50-60 Hz
Digital Inputs:	Two inputs, TTL or switch closure, active-low
Serial Communications:	Full duplex RS-232, 9600, 4800, 2400, 1200 bps; 7 or 8 data bits, even, odd, or no parity
Operating Temperature:	14°F to 104°F (-10°C to 40°C)
Storage Temperature:	14°F to 122°F (-10°C to 50°C)
Enclosure Dimensions:	9.5" x 6.0" x 2.75" (241mm x 152mm x 70mm)
Rating Material:	NEMA 4X/IP66, stainless steel
Warranty:	Two year limited warranty

Approvals

Indicator:	NTEP Certified per H-44 at 10,000 divisions, Class III/IIIL
Bench Scale:	NTEP Certified per H-44 at 5,000 divisions, Class III



Your Rice Lake Weighing Systems distributor is:

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To be the best by every measure®

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