

RICE LAKE[®]
WEIGHING SYSTEMS

Weight Indicator Guide



At Rice Lake Weighing Systems, our goal is to be the best by every measure. When all else is equal, three things will make your experience with us distinctly different: Service. Selection. Speed.

Our roots are firmly planted in the principles of quality and customer service. Through three generations of family ownership, these ideals remain unchanged. As an international leader in the manufacture and distribution of weight-related products and process-control equipment, our experts know digital weight indicators and are here to guide you to the right one.

Rice Lake's digital weight indicators are standard- or custom-built for purpose, and capable of the most basic to the most complex of tasks. Industries such as retail, livestock, bulk weighing, shipping and logistics, as well as harsh or hostile environments can benefit from the durability and reliability of a Rice Lake indicator.

From simple weight monitors to complex weight controllers that automate entire processes, Rice Lake offers unbeatable technology for today's industrial needs.

Rice Lake Contact Information:

To place an order:

Toll Free USA:
800-472-6703

24-hour Fax:
715-234-6967

Telephone:
715-234-9171

Email:
orderdesk@ricelake.com

Toll Free Canada/Mexico:
800-321-6703

Internet:
www.ricelake.com

Technical Support:

Technical Support:
800-472-6703

Service, Repairs,
Warranty:
800-472-6703

Canada & Mexico
Technical Support:
800-321-6703

service.rlws@ricelake.com

Customer Assistance and Service Department hours
Weekdays: 6:30 AM to 6:30 PM (Central Time)
Saturday: 8:00 AM to 12:00 PM (Central Time)
Customer service available in English, Spanish and French

Table of Contents

Programmable Indicators

- 2 1280 Enterprise™ Series**
- 5 920i® Series**
- 5 820i® Series**
- 5 720i™ Series**
- 6 880 Performance™ Series**

General Purpose Indicators

- 8 480 Legend™ Series**
- 10 420 Plus**
- 10 420HE**
- 11 120/120 Plus**

Specialty Indicators

- 12 CW-90X/CW-90**
Checkweighing Indicators
- 13 Counterpart®**
Counting Indicator
- 14 320IS/320IS Plus**
(Intrinsically Safe)

Signal Conditioning

- 15 Transmitter/Indicators**

Secondary Displays

- 16 LaserLT RD-1550**
- 17 LaserLight2™**

1280 Enterprise Series

The 1280 Enterprise™ Series programmable indicator delivers uncompromising speed for today's operations and expansive options for tomorrow's requirements. The 1280 is the definitive solution for complete business system integration, shattering the barrier between operations and data. A durable color touchscreen with a seven-inch LCD display integrates data with real-time analysis, enabling operators to optimize operations and leverage actionable information. Crisp visuals bring instant access to frequently used functions. Program multiple screens with custom graphics and softkeys for an interface that is designed for your process.

More than 150 built-in functions simplify programming, and custom applications are accomplished with Rice Lake's iRite® software. Existing 920i® programs can be adapted to run on the 1280 for a seamless upgrade. A highly customizable graphical user interface, the ability to power up to eight scales and a Freescale i.MX6 processor take multitasking to the next level. Built with industrial-grade components and stainless steel enclosures, the 1280 features IP69K protection for universal and panel mounts.

FEATURES

- Durable touchscreen with seven-inch 800 x 480 pixel color LCD display that adjusts for ambient light conditions
- Customize applications and data collection with event-based programming using iRite™ software
- Highly customizable graphical user interface
- Three different enclosure types: universal with tilt stand, panel mount and wall mount



**Built-in
WebServer**



- On-screen keyboard available during entry mode or use an external keyboard
- Multi-language operation and text entry
- Keypad for scale operations, numeric entry and navigation
- Built-in web server for remote access, systems integration and data monitoring
- Up to eight scales supporting analog load cell scales, total scales, serial scales and program scales
- Multi-range/interval weighing functions
- Eight digital I/O for control and pulse count
- 100 setpoints, 18 configurable setpoint kinds
- 22 softkeys with 10 user-defined
- Two RS-232 and RS-485 serial ports
- USB, Ethernet TCP/IP, Wi-Fi® Direct and Bluetooth® ports



i Series

The i Series programmable digital weight indicators are performance-driven for increased productivity in virtually any environment or application. Functional and easy to use, the i Series manages any weighing process and easily expands for seamless system integration.

FEATURES

- Configurable softkeys for an enhanced human machine interface
- Programmable display prompts guide operators through functions
- Backlit, graphical LCD display



920i

The 920i programmable digital weight indicator automates complex industrial processes without sacrificing user-friendly operation. It features multiple scale channels and can accommodate different scale types, including serial scale, total scale and digital diagnostic junction box.

- Custom program can store ID numbers, transactions, formulas, label formats and PLUs
- Up to 28 individual analog scale inputs
- Expandable with up to 14 option card slots
- Host interface to iQUBE2® digital diagnostic junction box



820i

The 820i programmable digital weight indicator delivers a powerful combination of price and function. It is available with both single- or dual-channel capability and the onboard truck in/out and batching programs provide smooth industry solutions right out of the box.

- Custom program with register data storage
- Up to two analog scale inputs with total scale display
- Eight onboard digital I/O
- Option slot supports one of eight option cards



720i

The 720i programmable digital weight indicator is built with high-end features at a mid-level price point. It is available with programmable or batching firmware, and features truck in/out selections and advanced truck weighing features.

- Standard truck in/out selections or advanced truck mode
- Store up to 1,000 truck in/out records
- Eight onboard digital I/O
- Option slot supports one of eight option cards



Additional features include: programmability, local/remote, configurable print/stream formats, linear 5-point calibration, truck in/out modes, and 16 x 350 ohm load cells per A/D card.

920i and 820i have batch and free-running setpoints.



880 Performance Series

The 880 Performance Series is built for enhanced communication. With two different enclosure types to choose from, Rice Lake's 880 Performance Series exceeds your expectations wherever you need it.

FEATURES

- Onboard USB (device and host), Ethernet TCP/IP (server and client) and RS-232 or RS-485
- NEMA Type 4X/IP69K enclosure
- Batch engine with 20 setpoints and 12 setpoint kinds
- Multi-range or multi-interval weighing

OPTION SLOTS

- EtherNet/IP™
- Profinet®
- ModBus TCP®
- DeviceNet®
- Profibus® DP
- Analog Output
- 4-Channel Relay
- EtherCAT



*Actual size
6.00 W x 4.00 H x 4.95 in D
USB (device and host)*





- LED display, 0.56 inch, 6-digit, 14-segment
- Four digital I/O channels
- Custom ticket and stream formatting
- Option cards provide expanded functionality for network protocols, analog output or relays
- Panel mount, DIN-rail clip mounting (880)
- Universal enclosure (880 Plus)
- Numeric keypad (880 Plus)

Additional features include: local/remote, configurable print/stream formats, linear 5-point calibration, batch and free-running setpoints, 8 x 350 ohm load cells per A/D card.

480 Legend Series

The Legend Series is a valuable solution for a variety of applications, from basic weighing to batching. These indicators are equipped with an ultra-bright LED or backlit LCD display and basic weighing keys. Keyed tare and built-in gross/net modes provide quick flexibility for everyday needs.

An optional lithium ion rechargeable battery allows for portable applications. The Legend Plus models offer a numeric keypad.

FEATURES

- LED or backlit LCD, 0.8 inch, 6-digit, 7-segment
- NEMA Type 4X/IP66 stainless steel enclosure
- Create custom gross, net and setpoint print formats
- Two independent RS-232 serial ports, and one available in 20 mA
- Single scale input for light capacity bench scales to heavy capacity industrial scales
- Local/Remote: secondary display in a remote location
- Eight setpoint steps for latched or continuous operation
- Optional internal rechargeable battery with power-saving modes
- Optional Ethernet TCP/IP and USB interface
- Analog output, 0-10 VDC, 0-20 mA, 4-20 mA, selection for 20% offset







420 Plus

Rice Lake's 420 Plus basic weight indicator offers two internal setpoints and a numeric keypad. The 420 Plus offers analog output and can power eight 350 ohm load cells or sixteen 700 ohm load cells.

FEATURES

- LED display, 0.8 inch, 6-digit, 7-segment
- Full numeric keypad
- NEMA Type 4X/IP66 stainless steel enclosure
- Two digital inputs, two digital outputs
- Counting mode
- Accumulator

420 HE

For chemically corrosive and Hostile Environments (HE), the 420 HE provides a durable basic-weighing solution with the added benefit of two setpoints and a 2-inch LED display. The 420 HE offers analog output and can power eight 350 ohm load cells or sixteen 700 ohm load cells.

FEATURES

- LED display, 2 inch
- NEMA Type 4X fiberglass-reinforced polyester (FRP) enclosure for ultimate environmental protection
- Neoprene boot covered switches
- Universal mounting tabs
- Up to 60 A/D updates per second
- Selectable display-update rate



120 and 120 Plus

For material handling or shipping and receiving applications, there is no need to sacrifice quality for price. Reliable yet cost-effective, the 120 powers up to four 350 ohm load cells and features digital filtering for stable, accurate weight data. Its durable, plastic enclosure protects the easy-to-read LED display. The 120 Plus is equipped with all the great features of the 120, but with a backlit LCD display and numeric keypad.

FEATURES

- LED or LCD display, 0.8 inch, 6-digit, 7-segment
- Up to 30 A/D updates per second
- Full front-panel digital calibration and configuration
- Two independent communication ports: one full duplex, uni-directional or active 20 mA current loop
- AC/DC adapter
- Internal rechargeable lithium battery (120 Plus)



CW-90X/CW-90

The CW-90 and CW-90X checkweighing indicators are designed to help speed up your weighing process and reduce production downtime. The configuration menus of the CW-90 and CW-90X are accessible through the front keypad, eliminating the need to open the back of the indicator and expose the unit to moisture or contaminants. For heavy washdown environments and HACCP requirements, the CW-90X is the indicator of choice. It features a liquid- and contaminant-resistant piezo keypad made to withstand sharp knife-point contacts.

FEATURES

- IP69K stainless steel enclosure
- Gore™ PreVent® breather vent inhibits pressure buildup from environmental changes
- Storage for up to 50 IDs, expandable with WeighVault™ PC software option
 - Target weight
 - Over/under weight
 - Tare weight
 - Unit measure
 - ID number
 - Description
- LED display, 0.8 inch, 6-digit, 14-segment
- Over/under light indicators
- Two full duplex serial ports
- Four digital I/O points





Counterpart®

Counterpart is a configurable indicator with high-resolution. It counts any part, from tiny resistors to heavy engine parts, accurately, quickly and easily. Offered in a choice of dual scale or single scale, the Counterpart can be connected to virtually any analog scale or serial scale/balance input. Easy to transport throughout a plant and ideal for seasonal or permanent installations, the Counterpart is rugged, lightweight and portable.

FEATURES

- LCD graphical display, transmissive for indoor viewing
- Single or dual channel models with serial scale input
- Four setpoint outputs
- Onboard storage for up to 150 IDs, expandable with WeighVault™ PC software option
- Two standard RS-232 ports
- Optional battery power



*Shown with
scale, printer and scanner.*

320IS/320IS Plus

The 320IS and 320IS Plus are intrinsically safe and designed for Class I, II and III; Divisions 1 and 2; and Groups A, B, C, D, E, F and G. The display's 0.8-inch digits ensure visibility is maintained. The 320IS Plus includes a full numeric keypad and setpoint control with optional remote I/O module.

FEATURES

- LED display, 0.8 inch, 6-digit, 16-segment
- Front-panel digital calibration
- Gross, tare and net computation
- NEMA Type 4X/IP66 stainless steel enclosure
- Power ON/OFF, battery save mode and time and date
- Permanent AC or portable DC battery power
- Fiber optic communication port for safe area peripheral interfacing





LaserLT RD-1550

The LaserLT RD-1550 is IP69K-rated with a 1.5 inch display and is viewable up to 50 feet, indoors or out. Daisy chainable and usable with a wide selection of peripheral equipment, the LaserLT RD-1550 delivers incredible value and unbeatable durability.

FEATURES

- LED display, 1.5 inch, 6-digit, 7-segment
- NEMA Type 4X/IP69K-rated, stainless steel enclosure, hinged cover
- Six annunciators for weighing mode, units and status
- Additional red and green stop/go annunciator lights
- RS-232, 20 mA communication ports
- Configurable keys to operate primary indicator
- Print, tare, zero, gross, net and units





LaserLight2™

Display weight, numeric data and messages with the LaserLight2 remote display. A super-bright LED display with non-glare lens provides sharp seven-segment, six-digit characters that are easy to read. Mounting options include a flange tab which accommodates ¼-inch hardware for vertical surface or pole mounting, or VESA mounting bracket for increased versatility.

FEATURES

- High-intensity red digits and annunciators
- Durable weather-resistant enclosure
- Non-glare contrast filtered lens
- RS-232, 20 mA, RS-485 communications or optional wireless radio interface
- Enclosure breather vent
- Optional traffic control symbols (Stop/Go model)



230 W. Coleman St. • Rice Lake, WI 54868 • USA
U.S. 800-472-6703 • Canada/Mexico 800-321-6703
International 715-234-9171

www.ricelake.com

© 2016 Rice Lake Weighing Systems PN 168614 07/16