

# 920i<sup>®</sup>

PROGRAMMABLE  
INDICATOR/CONTROLLER



MAPLE  SCALES  
— SOLUTIONS THAT WEIGH —

**RICE LAKE<sup>®</sup>**  
WEIGHING SYSTEMS

800-472-6703  
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# Flexibility. Intelligence. Programmability. It's all in the box.

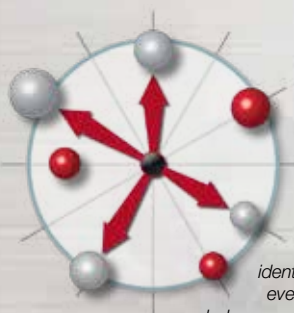
The 920i<sup>®</sup> weight indicator and process controller blends revolutionary user interfaces, total flexibility and processing performance with the simplicity of a basic weight indicator. A crisp, highly customizable LCD graphical display, programmable softkeys and industry-recognized electronics are surrounded by a virtually indestructible enclosure to create one of the industry's most trusted weight indicators and process controllers.

Adding an entirely new dimension in flexibility for solution providers and users alike, the 920i indicator/controller brings simplified customization at a fraction of the cost of traditional process instrumentation. From tailored basic weighing to complex process automation, the 920i gives you features, programmability and power for your process.



## Typical Loop Processing

Loop Processing follows a specific sequence of instructions which can cause program delays or systems to become unresponsive.



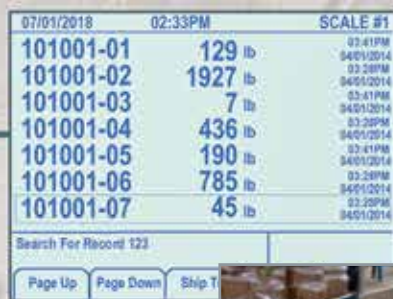
## Event Based Processing

The 920i utilizes event based processing, which identifies, prioritizes and executes events rather than processing a whole sequence of events. This results in increased efficiency and multi-tasking.

Completed Tasks  
Uncompleted Tasks



Bar graphs and visual cues inform users when a batch or fill is in process and when it's approaching target weights.



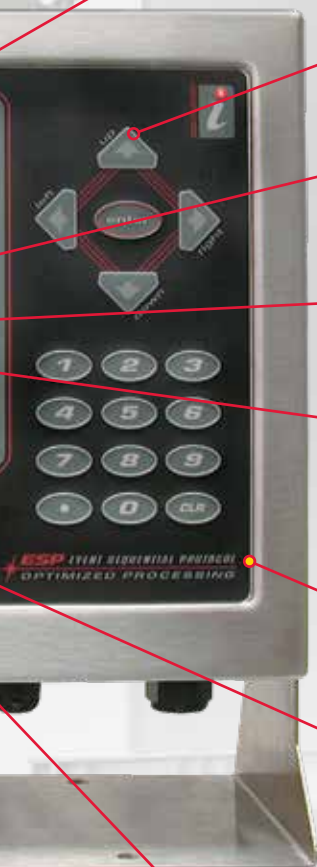
Customized database programs allow you to store, access and analyze critical production information.



A 32-channel display capability allows viewing of weight on an individual scale and a combination of totalized scales.







#### THE ULTIMATE USER INTERFACE

Character sizes are selectable from .25 up to 1.2 inches to tailor the display to the information required.

#### NAV-PAD

Convenient navigation pad increases efficiency.

#### CUSTOMIZED SCREENS

Customize up to 10 screens with scales, bitmaps, bar graphs, text boxes and symbols.

#### GRAPHIC ICONS AND MESSAGES

Provide visual user feedback for alerts and function status.

#### SOFTKEYS

Multiple user-defined and preset functions are available simultaneously through five convenient softkeys with easy-to-read scrolling tabs.

#### PROGRAMMABILITY

Create custom programs using iRite software.

#### STAINLESS STEEL DOMED SWITCHES

Heavy-duty tactile keys feature stainless domes tested to over five million actuations!

#### PROMPTING

Customized prompts guide operators through functions.

#### NEMA TYPE 4X/IP66

Heavy-duty, stainless steel enclosure for enhanced protection in harsh environments.



## Leading Design

The 920i combines recognized performance, simplified architecture and intuitive features to provide a powerful instrument that is remarkably easy to use.

- Large 4.6" W x 3.4" H, 320 x 240 pixel backlit LCD graphical display
- Integrated PS/2 or USB port allows for quick data entry from a keyboard and seamless communication with a PC or other peripheral device
- NEMA Type 4X, IP66 stainless steel enclosure

## Proven Performance

The 920i delivers the speed, responsiveness and accuracy you need to stay ahead of the competition.

- Simultaneously view up to 32 scale/sensor inputs, or up to four Legal for Trade scales
- Single or multiple A/Ds feature selectable rates from 7.5 to 960 updates per second
- Event Sequential Protocol (ESP) technology identifies, prioritizes and executes events for increased efficiency and multi-tasking
- Power for (16) 350Ω load cells per A/D board
- Digital filtering and a selectable display update rate ensure accurate, stable weightments
- Safe shutdown, increased input and transient voltage protection assure data is safeguarded in unreliable power environments.

## Flexibility

The 920i's modular design allows you to choose only the options necessary for your current application, yet leaves room for future expansion.

- Easily integrates into new or existing automation systems
- Open connectivity for the most popular networking interfaces
- 100 configurable setpoints and six onboard digital I/O
- Two onboard option card slots (expandable to 14) for increased functionality, including communication protocols such as DeviceNet™, Allen-Bradley® Remote I/O, Ethernet/IP™, ControlNet™, Profibus®, Ethernet TCP/IP and Wi-Fi

## The Power of Programmability

Customization puts increased productivity at your fingertips. The 920i features versatile programming options for increased process efficiency in virtually any application.

- Up to 10 different screens can change with any given process
- Real-time bar graphs show progress of filling or batching systems
- Graphic icons and messages show user alerts and function status
- Customizable softkeys give instant access to frequently used functions
- Use Rice Lake's iRite® software to bring a new level of sophistication to your operation with custom applications



## Standard Features

- Large 4.6" W x 3.4" H, 320 x 240 pixel back-lit LCD graphical display
- Selectable character sizes from .25" to 1.2"
- Display up to four scale channels with required Legal for Trade information per screen
- Five displayed softkeys with 10 user-defined and 14 preset functions per screen
- Selectable A/D measurement rate up to 960/second
- Power for (16) 350Ω load cells per A/D board
- Peak hold, rate of change
- Audit trail tracking and alibi storage
- Multiple range/interval weighing
- Four bidirectional communication ports
- Local/remote keypress operation
- Operator prompts/256 widgets
- Multiple screens (program control)
- Eight onboard databases
- Six onboard digital I/O
- 100 configurable setpoints, 30 types
- Two onboard option card slots
- 1,000-ID truck registers for in/out weighing
- Programmable ticket formats 20 auxiliary print formats
- ESP event-driven processing
- User programmable 128 K flash memory
- iQUBE2<sup>®</sup> connectivity
- 32 individual scale accumulators
- NEMA Type 4X/IP66 stainless steel enclosure
- PS/2 or USB keyboard port for data entry

## Options/Accessories

- Digital I/O, 24 channel
- A/D dual or single channel
- 0-4 kHz pulse input
- Analog output selectable (0-10V, 0-20mA), single or dual
- Analog input (-/+ 10VDC, 0-20mA)
- Thermocouple (E, J, K, N, T)
- Memory, 1 MB (14 MB optional)
- Two channel serial (RS-232, RS-485)
- Two- and six-card expansion boards
- DC-DC 9-36 converter
- PS/2 or USB keyboard
- Fiber optic interface
- Trans-reflective display for sunlight applications



## Communication protocol cards

- DeviceNet™
- Allen-Bradley® Remote I/O
- EtherNet/IP™
- ControlNet™
- PROFIBUS® DP
- PROFINET®
- Ethernet TCP/IP 10/100 Base-T
- Wireless LAN (Wi-Fi)

## Enclosure Options

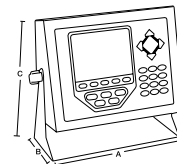
### Universal Mount

#### Common Applications

- General purpose indoor/outdoor
- Confined space
- Data entry

#### Model-Specific Features

- 360° mounting configuration
- Accommodates two option cards internally (up to 2 total)



A = 10.6" B = 5.3" C = 10.9"

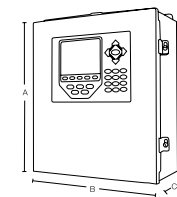
### Wall Mount

#### Common Applications

- Control systems
- Industrial indoor/outdoor
- Material handling

#### Model-Specific Features

- Space for manual overrides
- Accommodates eight option cards internally (up to 14 total)
- Accommodates internal relays



A = 18.2" B = 14.3" C = 6.75"

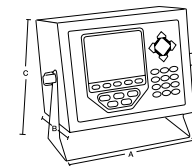
### Deep Universal Mount

#### Common Applications

- General purpose indoor/outdoor

#### Model-Specific Features

- Ergonomically efficient
- Accommodates four option cards internally (up to 4 total)



A = 10.8" B = 5.3" C = 10.9"

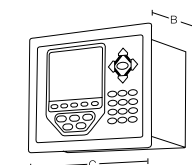
### Panel Mount

#### Common Applications

- Process control
- Retrofit existing panels
- Custom consoles

#### Model-Specific Features

- Optimizes panel space
- Accommodates four option cards internally (up to 4 total)



A = 9.2" B = 5.2" C = 11.6"

## Approvals



CC #01-088  
Accuracy Class  
III/III-L n<sub>max</sub>: 10,000



Universal, Deep and  
Wall Mount cUL listed  
Panel Mount cUL  
recognized



Measurement  
Canada  
Approved  
AM-5426  
Accuracy Class  
III/III-L n<sub>max</sub>: 10,000



UK 2658  
Accuracy Class  
III n<sub>max</sub>: 6000/10,000



UK 2658  
Accuracy Class  
III n<sub>max</sub>: 6000/10,000

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