920i ®

PROGRAMMABLE INDICATOR/CONTROLLER

Available with USB

RICE LAKE®
WEIGHING SYSTEMS

920*i*®

PROGRAMMABLE INDICATOR/CONTROLLER

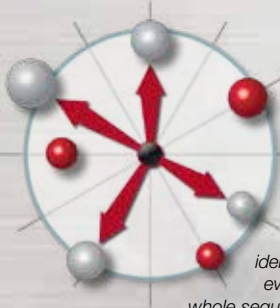# Flexibility. Intelligence. Programmability. It's all in the box.

The 920i® 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.

Completed Tasks

Uncompleted Tasks

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.

Bar graphs and visual cues inform users when a batch or fill is in process and when it's approaching target weights.
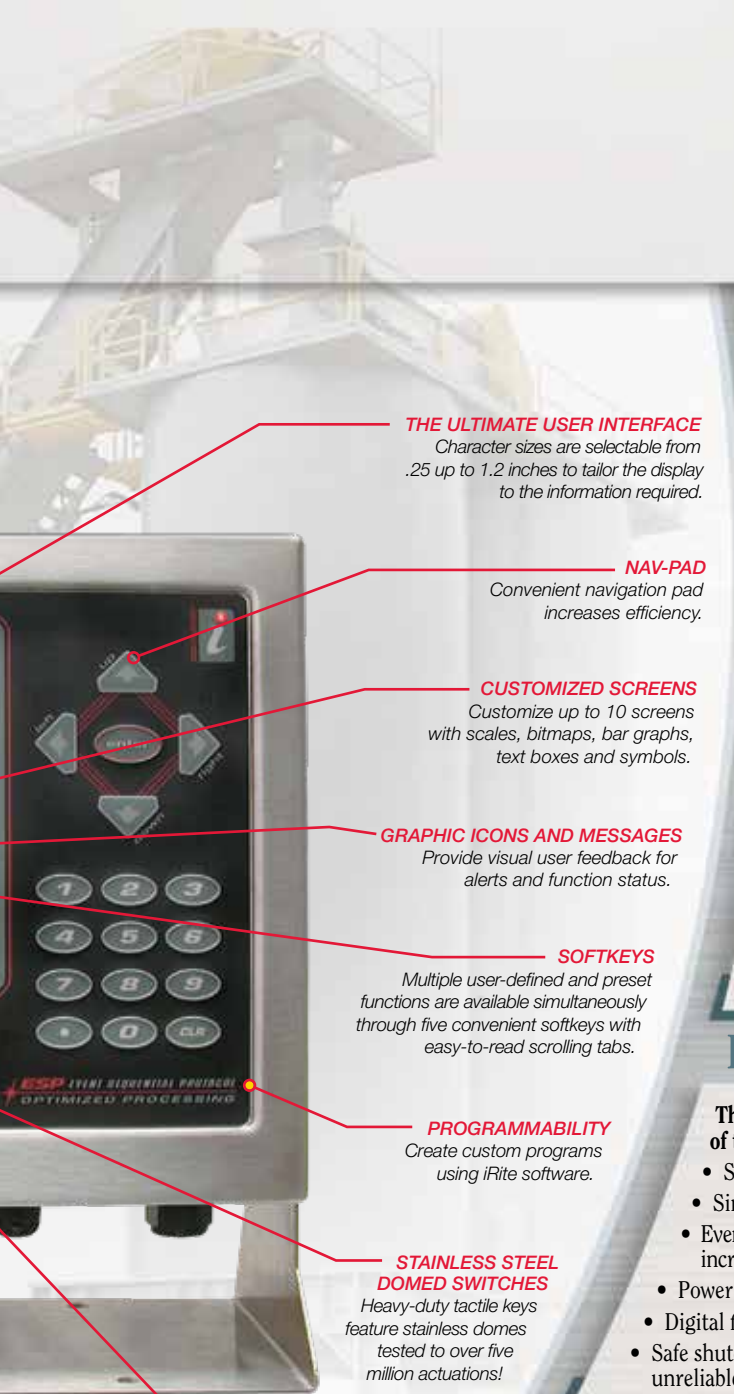
Customized database programs allow you to store, access and analyze critical production information.

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

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 weighments
- 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

920i

PROGRAMMABLE INDICATOR/CONTROLLER

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) 350 Ω 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® 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 (0-10 V, 0-20 mA), single or dual
- Analog input (-/+ 10 V DC, 0-20 mA)
- 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-flective 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)

RS-232 RS-485

20 mA current loop

DeviceNet™

EtherNet/IP™

PROFI BUS®

Ethernet connectivity
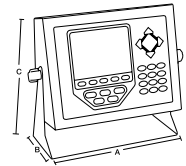
USB

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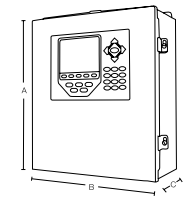
A = 10.6" B = 5.3" C = 10.9"

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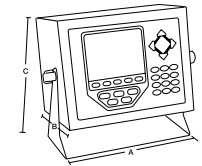
A = 18.2" B = 14.3" C = 6.75"

Deep Universal Mount

Common Applications
- General purpose indoor/outdoor

Model-Specific Features
- Ergonomically efficient
- Accommodates four option cards internally (up to 4 total)
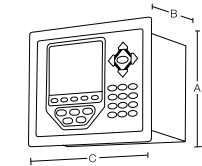
A = 10.8" B = 5.3" C = 10.9"

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

NTEP
CC #01-088
Accuracy Class III/IIIL n_{max}: 10,000

c UL us LISTED
Universal, Deep and Wall Mount cUL listed Panel Mount cUL recognized

C E

Measurement Canada Approved
AM-5426
Accuracy Class III/IIIHD n_{max}: 10,000

TÜV
PRODUCT SERVICE

OIML
UK 2658 Accuracy Class III n_{max}: 6000/10,000

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