820*i*®

PROGRAMMABLE HMI INDICATOR/CONTROLLER

RICE LAKE
WEIGHING SYSTEMS
To be the best by every measure®

820*i*. The Power t

How can *i* help you?

To gain the competitive edge in today's fast-paced business environment, you need cost effective solutions that not only optimize your processes, but also provide an intelligent, flexible migration path. Meet the Rice Lake 820i.
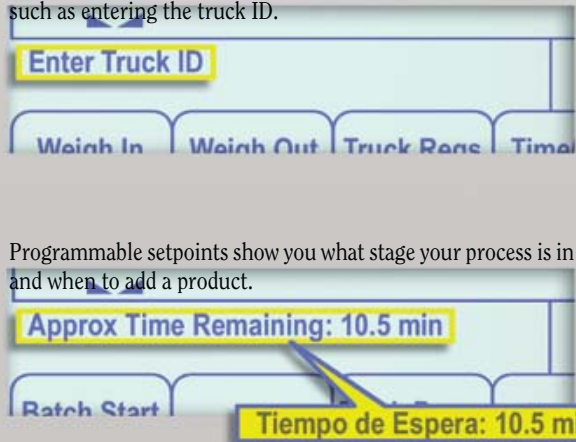
Much more than a basic weight indicator

The 820i revolutionizes basic instrumentation programming, allowing for more affordable serviceability and programming support. Unlike many programmable indicators, the 820i features an intuitive user interface that enables users to automate formula selection, batch start up, data recall, or any frequently used process with the push of a button. With the 820i on board, increasing accuracy and improving the efficiency of any weight-related process has never been easier.

By presetting soft keys, fixed messages can be automatically sent to a remote display. (Requires iRite or iRite IDE™ program)

The ultimate user-interface!
Character sizes are .75 inches for 1 scale or .5 inches for 2 scales

Prompting
Customized scrolling prompts guide operators through functions

Soft keys
Multiple, user-defined and preset functions are available simultaneously through five convenient soft keys with easy-to-read tabs

Control screen intensity
Display key provides quick contrast adjustments for maximum readability in any environment

Automate your process with programmable prompts

Customized scrolling prompts guide operators through functions such as entering the truck ID.

Programmable setpoints show you what stage your process is in and when to add a product.

Display prompts in any Latin-based language.

Batching to the power of *i*

In any batching application, it's a challenge to provide accurate, quality products while attempting to reduce costs.

Fortunately, there's an HMI indicator/controller that will keep your process on target—the 820i.

The 820i gives you instant access to frequently used functions such as selecting a formula or starting a batch with programmable soft keys.

Configure up to 100 setpoints to operate as free-running, sequenced or latched; and customize setpoints with weight-based or event and action-defined triggers.

The 820i can batch in gross weight, net weight, percent of target or by time. Precise batching and consistent quality are attained by using automatic learning or flow preact.

to Personalize your Process.

Nav-pad
Convenient navigation pad increases efficiency and accuracy

Stainless steel domed switches
Heavy-duty tactile keys feature stainless domes tested to over five million actuations

Event Sequential Protocol
The most advanced processing technology in the industry

NEMA 4X/IP66
Heavy-duty, stainless steel enclosure for enhanced protection in harsh environments

A two-scale display gives you the options of viewing one or two scales at a time. The analog input and thermocouple option card lets you monitor weight, temperature or other sensors simultaneously.
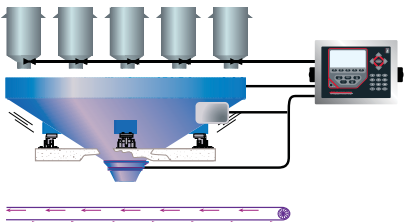

Onboard data storage lets you store, track and transmit weight information with your 820i. Alibi software lets you recall and print previous transactions.

With two standard serial communication ports and 20 configurable custom print formats, designing custom labels and tickets to include logos, IDs, net weight, bar codes, and more is easy with the 820i.

With open connectivity to the most popular networking interfaces, 820i system integration is seamless.

Repeatability, tighter quality control, waste reduction, system integration, increased productivity and ease of use — that's the *power* of the 820i.
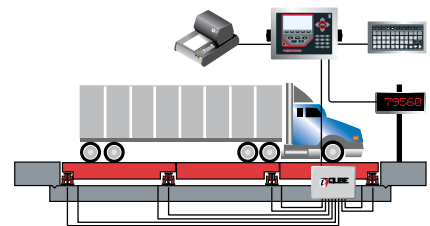

Streamline your truck scale operation

At the edge of an enterprise...that's where you'll find most truck scales. While it appears the truck scale is on the outskirts, it's actually a central and vital component to the entire operation. After all, it's often the first thing raw materials cross coming into a facility, and the last thing finished goods cross going out. That in itself makes it a powerful piece of equipment, requiring an equally powerful and flexible management solution like the 820i.

When specific events are defined, you can expedite the flow of traffic by controlling signal lights, operator prompts, and load filling/discharging.

Built-in software functionality includes programmability for alibi tracking, local-remote and multi-range (interval) weighing.

Additionally, the 820i conveniently stores up to 1,000 truck inbound records for recall at any time. With six truck modes and keyed tares, the 820i simplifies your truck scale data management.

820*i* PROGRAMMABLE HMI INDICATOR/CONTROLLER

Standard Features

- Large (4.6 in W x 2.2 in H, 320 x 156 pixel) back-lit LCD display
- Weight display is .5 in or .75 in
- Display up to two scales (scale 1, scale 2 and total)
- Five user-defined soft keys
- Weight or millivolt calibration with linearization and geographical compensation
- NEMA4X/IP66 stainless steel enclosure
- Selectable A-D measurement rate up to 960/second
- Power for 16, 350 Ω load cells total
- 100 setpoints latched or free-running
- Peak hold

- Rate of change
- Local/remote keypress operation
- Audit Trail Tracking & Alibi Storage
- One option slot for pluggable options
- 1,000 - ID truck register for in/out weighing
- iRite or IDE programmable
- User programmable 256K flash memory
- Onboard data storage 190K
- Multiple Range/multiple Interval
- 20 auxiliary print formats

Options/Accessories

- Digital I/O, 24 channel
- Dual-channel serial, 20mA, RS-232, RS-485
- Single-channel analog output selectable (0-10V, 0-20 mA)
- Dual-channel analog output selectable (0-10V, 0-20 mA)
- Analog input +/-10VDC, 0-20mA and Thermocouple
- USB Port (PC connection only-replaces serial port)
- Fiber optic board
- Sunlight viewable display

RS-232 RS-485

20 mA current loop

DeviceNet

ENCOMPASS
ROCKWELL AUTOMATION
AMERICAS PARTNER

PROFI BUS

Ethernet connectivity

Communication protocol cards

- DeviceNet
- Remote I/O
- Profibus DP
- Wireless LAN
- EtherNet IP
- Ethernet TCP/IP
- Control Net

Specifications

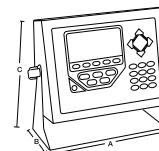|	
Display Viewable area:	4.6 in W x 2.2 in H (116 W x 55 mm H), 320 x 156 pixel VGA Liquid Crystal Display (LCD) module with adjustable contrast
Excitation Voltage:	10 VDC, 16 x 350 Ω load cells
A/D Sample Rate:	7.5 to 960 Hz, software selectable
Resolution:	8,000,000 counts, 23 bit
Serial Ports:	Two ports on CPU board support up to 115,200 bps
Digital I/O:	Eight channels on CPU board
Circuit Protection:	RFI, EMI, ESD Protection
Line Voltages:	115 or 230 VAC, 50 or 60 Hz
Operating Temperature:	Legal: 14°F to 104°F (-10°C to +40°C) Industrial: 14°F to 122°F (-10°C to +50°C)

Enclosure Options

Universal Mount
Common Applications
- General purpose indoor
- Confined space
- Data entry

Model Specific Features
- 360° mounting configuration
- Accommodates one option card internally
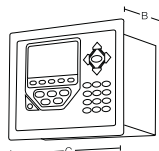
A = 10.8 in
B = 5.3 in
C = 10.9 in

Panel Mount
Common Applications
- Process control
- Retrofit existing panels
- Custom consoles

Model-Specific Features
- Optimizes panel space
- Accommodates one option card internally

A = 9.2 in
B = 5.2 in
C = 11.6 in

Approvals

NTEP
CC #01-088
n_max = 10,000
Class III/IIIL

OIML
UK 2658
T 5692
n_max = 6000/10,000

Measurement Canada Approved
AM-5126
n_max = 10,000
Class III/IIIHD

TÜV
PRODUCT SERVICE

RoHS WEEE
COMPLIANT

c UL us
LISTED

c **RU** us
(Panel mount)

CE

Looking for even more programming power and flexibility?

Ask your Rice Lake distributor about the incredibly flexible, infinitely expandable, high-speed programmable 920i HMI indicator/controller.

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To be the best by every measure®