

720i

PROGRAMMABLE HMI
INDICATOR/CONTROLLER



RICE LAKE
WEIGHING SYSTEMS

Commitment Beyond Measurement®

www.ricelake.com

The 720*i* Programmable HMI Indicator



**More functions.
More flexibility.
More friendly.
Much faster.**

The 720i is Rice Lake's response to your need to efficiently and reliably manage diverse control systems, interface with operators, integrate with peripheral equipment, and capture weight-related data. Any degree of automation, from simple to complex, suits the 720i. With programmability and data base storage, the 720i is an intelligent, flexible, all-around indicator ideal for a wide variety of weighing applications. From basic weighing and data collection to recipe formulation, inventory management and traceability, the 720i is the perfect mid-range indicator.

This weight-based control system is ideal for filling and discharging; multi-ingredient, multi-recipe, with sequential or simultaneous events. For large applications, the onboard 8 I/O can be increased to 32 I/O.

The graphic display includes an easy-to-read operator prompt line and four soft keys for efficient, convenient operator use. Since the 720i is programmable, you can easily customize your process for operational tasks, keyed inputs or selections.

Two standard bi-directional serial ports, a remote keyboard port and an option card slot, make the 720i suitable for a variety of applications. There are 24 customizable demand formats and one continuous format, which are integrated with variable fields. Whether transmitting point-to-point tickets, labels, reports or communicating with network devices, the 720i has the power to meet your needs.

The configurable data base has 256 KB of memory and up to eight unique databases. Each can be sized for as many as 20 columns and any number of records that are required. This makes capturing or recalling essential data manageable in every weighing application.

You get ability *and* agility with the 720i.

Intuitive, easy-to-use local display
Character sizes are 3/4" and backlit for easy readability at a distance, in bright sunlight and dim light.

Four (4) Soft Keys
Soft keys allow operator to easily create new keys and understand functions and selections.

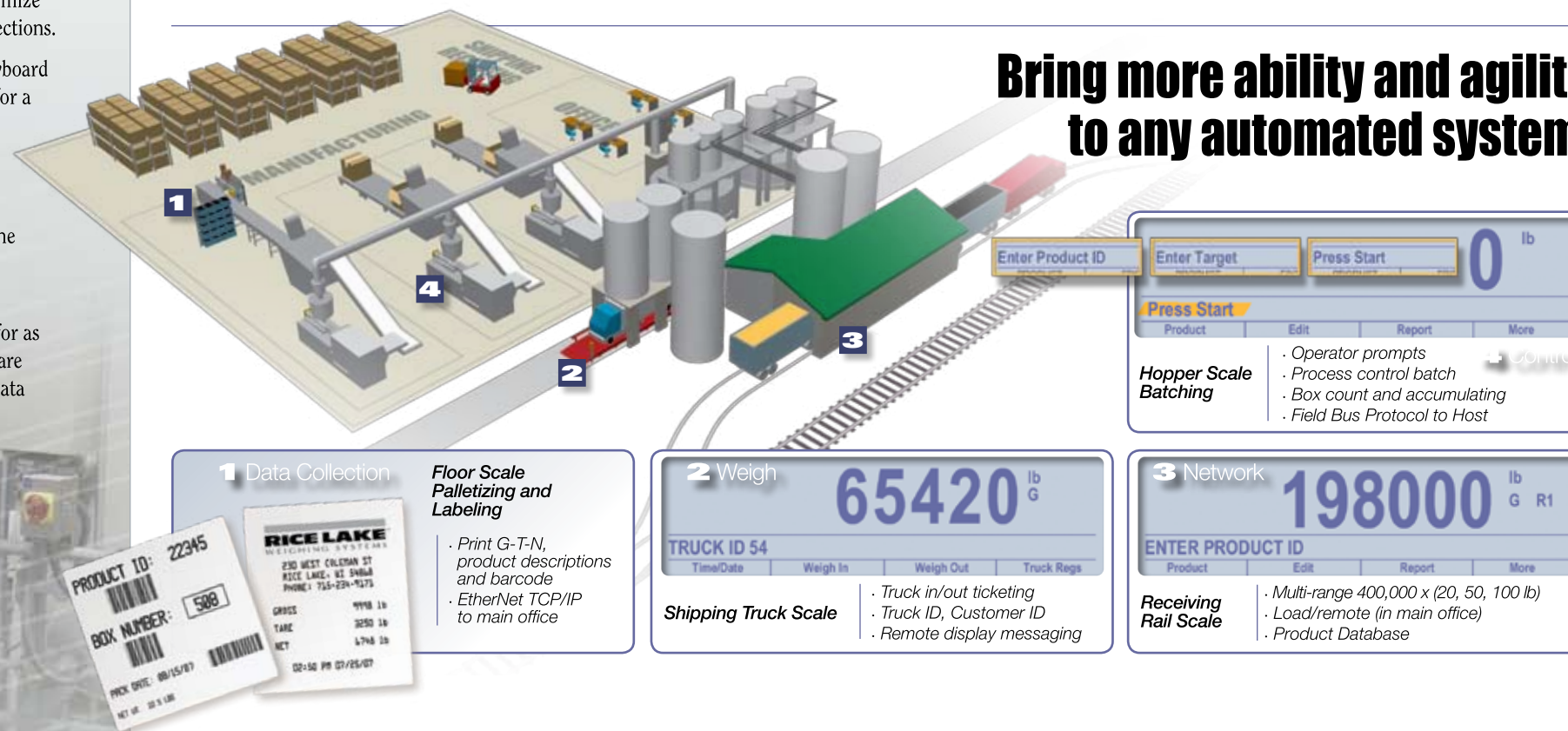
ProAction™
The fastest, most powerful single scale controller available with an onboard process control engine and database storage.

NEMA 4X/IP66 Rated Enclosure
Heavy-duty, stainless steel embossed enclosure is ideally suited for toughest industrial environments.

Zero/GrossNet Menu/Tare/Units Print Keys
Most common interface keys located on the front panel for easy access.

Deterministic I/O Control
The 720i essentially combines all the features and benefits of weight-based control system architecture with that of a typical PLC.

Bring more ability and agility to any automated system.



ProAction Process Control and Database Editor

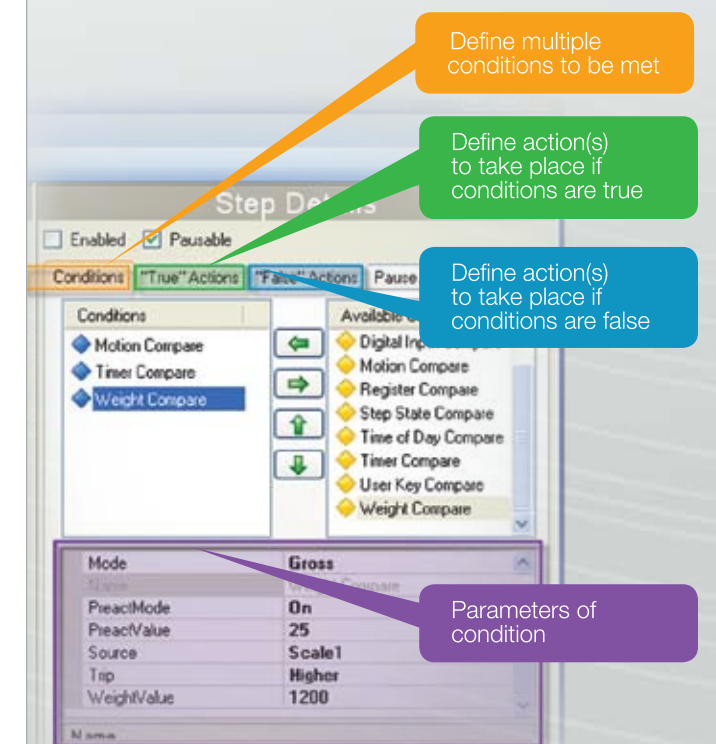
Proaction (PCEE) is a Windows software program that allows easy programming of steps, conditions and actions. The steps are named in the step list, and step details are selected from a conditions list and action lists.

ProAction (DBE) makes defining the data base schema easy with a graphical representation. The data can be uploaded, downloaded, imported or exported depending on the current need.

ProAction The Deterministic Onboard Process Control Engine

Proaction, the built-in batch engine, allows evaluation of multiple conditions and can perform multiple actions when conditions are met. Up to eight conditions and actions can be selected for any step, and there are a total of 256 steps that can be set. When the conditions are evaluated, Proaction can perform true, false or paused actions.

Proaction can bring up prompts, store and retrieve product and job information, compare and accumulate weight, read inputs and control outputs, start tasks depending on time of day or length of task, plus other comparisons.





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.

720i PROGRAMMABLE HMI INDICATOR/CONTROLLER

Standard Features

- LCD display size:
Panel mount 3.8" x 1.2"
Universal 5.3" x 1.5"
- Four soft keys
- Truck in/out, 1,000-ID memory
- ProAction process control engine - define conditions and actions
- Data storage onboard, user-defined
- (8) Digital I/O (expandable)
- One option slot for pluggable options
- (20) Auxiliary print formats
- Time and date
- Audit trail tracking and alibi storage
- Peak hold
- Rate of change
- Multi-range/interval
- Local/remote

Functionality:

- Two full duplex serial ports
- One remote keyboard port
- Header for fiber optic, Ethernet or USB

Options/Accessories

- Digital I/O, 24 channel
- Dual-channel serial, 20mA, RS-232, RS-485
- Analog output selectable (0-10V, 0-20 mA)
- USB Port (PC connection only-replaces serial port)
- DC/DC converter kit, 9-36 VDC nominal
- Fiber optic board
- Remote Keyboard
- Filter PreVent™ vent kit

Communication protocol cards

- Ethernet TCP/IP Port (replaces serial port)
- Ethernet TCP/IP module (installed in option slot)
- Allen-Bradley® Remote I/O interface
- Profibus® DP interface
- DeviceNet™ interface
- Ethernet IP interface

RS-232
RS-485

20 mA
current loop

DeviceNet

ENCOMPASS
ANALOG PARTNER

PROFIBUS
DP

Ethernet
connectivity

Specifications

Display Viewable area:	Panel mount 3.8" x 1.2" (96 x 30 mm); Universal 5.3" x 1.5" (133 x 39 mm) 240 x 64 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:	Internal resolution: 8,000,000 counts 23 bit Weight display resolution: 9,999,999
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
Rating/Material:	NEMA 4X/IP66, stainless steel
Operating Temperature:	Legal: 14° F to 104° F (-10°C to +40°C) Industrial: 14° F to 122° F (-10°C to +50°C)

Approvals (Pending)



*Electrical approval for Universal **Electrical approval for Panel Mount

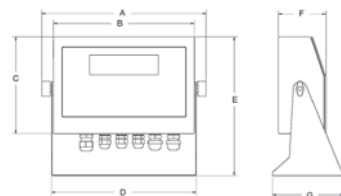
Enclosure Options

UNIVERSAL MOUNT

Model Specific Features

- 360° mounting configuration
- Nema 4X enclosure IP66

A = 12.24"
B = 10.50"
C = 7.25"
D = 10.80"
E = 10.38"
F = 3.52"
G = 5.25"

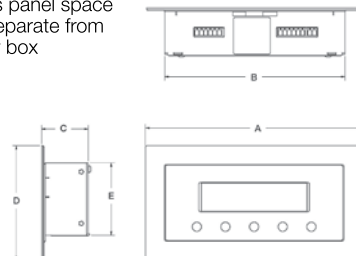


PANEL MOUNT

Model-Specific Features

- Optimizes panel space
- Display separate from Controller box

A = 7.36"
B = 6.12"
C = 3.88"
D = 1.58"
E = 2.45"



PANEL MOUNT CONTROLLER BOX

Model Specific Features

- Locate up to 1,000 feet from display
- Machine screw or clip in din rail mount

A = 12.75"
B = 10.95"
C = 2.00"
D = 5.90"



Your Rice Lake Weighing Systems distributor is:



Commitment Beyond Measurement®

230 W. Coleman St. • Rice Lake, WI 54868 • USA
TEL: 715-234-9171 • FAX: 715-234-6967 • www.ricelake.com

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Specifications subject to change without notice