ZLC

with ZLC Max software

ZERO LANGUAGE CONTROLLER

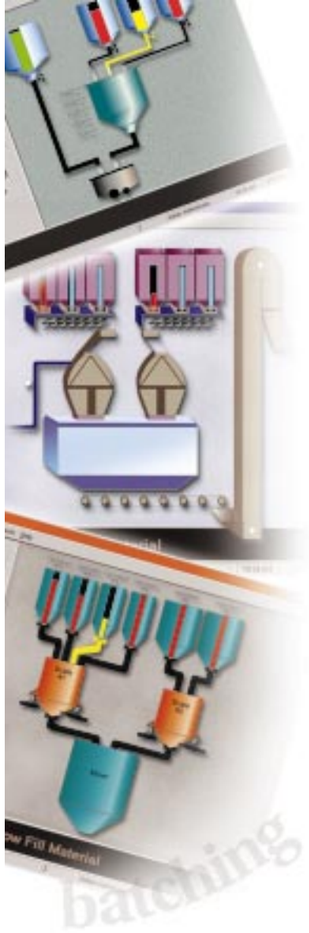
The only automated batching solution that lets you move faster than the world around you!

- *Easy-to-use point-and-click operation*
- *Pentium-class industrial PC*
- *Automated batching, manual batching or combination*
- *Stores thousands of materials and recipes*
- *Multiple scale support*
- *Batch tracking and reporting*

Official Scale Company of the New Millennium — Y2K READY

NTEP

RICE LAKE WEIGHING SYSTEMS
Industrial Solutions on a Global Scale®



ZLC… Anyone can operate it. Nothing can match it.

Point and Click Intelligence

Speed and simplicity. That's what the ZLC Controller is all about. Whether your operation involves adding a new ingredient to a food process or adjusting the water quantity in a nuclear waste treatment plant, the ZLC Controller eliminates programming language entry in order to setup and run a batch routine. Simply point and click to get the results you desire. It's the only true automated batching solution that lets you move faster than the world around you.

No Programming Language Required!

At the heart of the ZLC Controller is highly-advanced software called Zero Language Control (ZLC) *Max*. Designed with the end user in mind, this intelligent software features a Windows®-based interface that walks users through the entire configuration process. Within a matter of minutes, a batch routine can be configured to your needs! Now you can take advantage of opportunities as they arise, minimizing downtime and lead times.

Rugged, Flexible, Fully Loaded

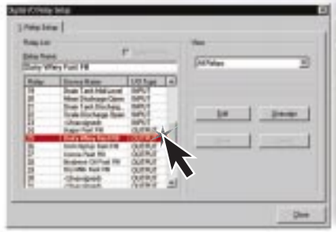
The ZLC Controller features a NEMA 4 enclosure housing an industrial PC with a Pentium processor. ZLC *Max* is available with two different software versions depending on your needs. Operate one scale with up to 48 input/output points, or run up to six scales with up to 288 input/output points. Both versions include the following features:

- *Unlimited recipe storage*
- *Auto-learn preact and auto-jog for superior accuracy*
- *On-screen warnings*
- *Flexible speed fills*
- *Comprehensive drop-down Help menu*
- *Three levels of password security (administrator, supervisor, operator)*
- *Database backup and restore*
- *Safety interlocks*
- *Batch recovery after power interruptions*
- *English language or Spanish language*
- *Single- or dual-speed fills*
- *Reporting follows indicator units of measure (lb, kgs, tons, grams, etc.)*
- *Control lights, blenders, gates, motors, conveyors, scanners, flow meters, pumps, valves, and more*

The ZLC is the ultimate in versatility! Add materials automatically via scales or flow meters or hand dispense—it's perfect for automating a new system or fitting into an existing system.

Precisely Engineered Solutions

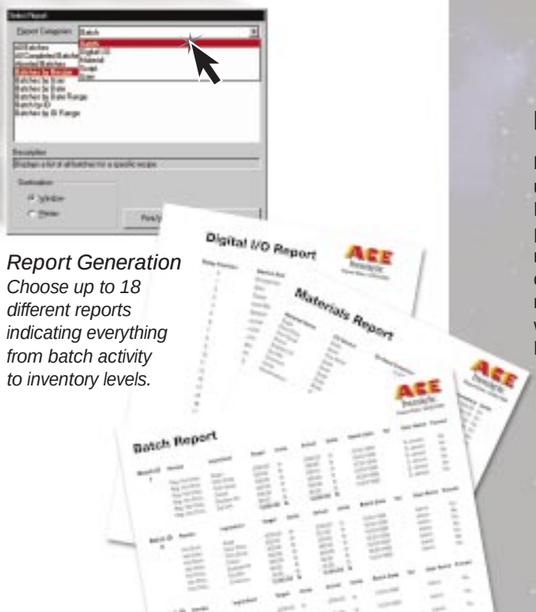
Each ZLC Controller we manufacture is unique. Why? Because you know what is best for your operation. As a result, we precisely engineer each ZLC Controller to meet your specific needs. From manual override controls to warning lights to network connectivity, we work closely with you to provide the industry's ultimate batching solution for today and beyond.



Relay Setup
Setting up relays has never been easier. Simply point and click to assign a relay to its proper location.

Editing and Saving Recipes
The ZLC controller lets you make changes on demand. Scroll through the batch script to edit and save an unlimited number of recipes.

Real-Time Graphics
Provide a complete visual of the batching process as it happens!



Report Generation
Choose up to 18 different reports indicating everything from batch activity to inventory levels.

ZLC ZERO LANGUAGE CONTROLLER

Options:

- *Connecting to flow meters*
- *Ethernet connectivity*
- *Network capability*

ZLC Zero Language Controller Specifications:

Materials and Recipes:	Materials can be configured to batch automatically or manually Limited only by disk space—thousands of recipes can be added
External Devices:	Can be configured in ZLC software
Security:	Three levels of user security
Batching:	Start, stop, and pause ability. Automatic recover in case of power loss during batching
Reports:	Material usage, inventory, batch report, data listings, and user activity report
Test:	Test peripheral devices in a controlled manner
Display:	11.3" diagonal, flat TFT (thin film resistor) 800x600 resolution, adjustable brightness control
Mouse:	Round membrane panel integrated mouse for permanent operation
Keyboard:	28 alpha keys, 28 numeric and symbol keys Keys labeled K1–K12, function keys F1–F12 configurable
Interface Ports:	External PS/2 port External PC 104 key style keyboard
Disk Drives:	Minimum 4.3 GB hard drive, shock mount Front panel access to 1.44 MB 3.5" floppy disk drive
Serial Output:	Standard 1 serial RS-232 bidirectional Optional: 2 additional RS-232 bidirectional serial ports
Parallel Output:	1 parallel port for printers
Relay Inputs and Outputs:	48 minimum, 144 standard 288 maximum locally
Power:	Input Voltage: 85-132, 170-264 VAC auto-switching, 47-63 Hz Input Power: Maximum: 230 Watts (785 BTU/hr) 465 VA max; Typical: 96 Watts (328 BTU/hr) with Pentium II, 266 Mhz, A-B PCI video card, ISA keyboard interface card, digital I/O card Output Power: 155 Watts max, at 50˚ C (180/120 W power supply)
Operating Temp.:	41˚F to 122˚F (5˚C to 50˚C) -13˚F to 122˚F (-25˚C to 50˚C) non-operating temp.
Front-Panel LED Indicators:	Power On, Hard Drive Access, Over-Temperature, Caps Lock, and Insert
Relative Humidity:	8% to 80% non-condensing
Operating Shock:	15G (1/2 Sine, 11 millisecond duration)
Unit Weight:	37 lbs (not mounted in an enclosure)
Dimensions:	Not including NEMA 4 painted mild steel enclosure Front panel height: 14" (355.6cm); Width: 19" (482.6cm); Depth: 8.38" (212.9cm)
Warranty:	One year limited warranty on hardware 90-day warranty on software
Operating System Options:	Windows 95/98/NT
Ventilation:	Main ventilation fan (changeable filter) Power supply fan

Truly intelligent software for batching and process control...

For operations that don't require a rugged controller, take advantage of ZLC *Max* from your desktop. Whether you're performing basic operation or highly-sophisticated batching, you can turn your PC into a complete batching control center by simply installing ZLC *Max* and interfacing it to a digital weighing indicator.

Our engineers have created this state-of-the-art program so your engineers don't have to. Save valuable time by moving faster then the world around you with ZLC *Max*.

ZLC Max Specifications (software only):

Minimum System Requirements:	Pentium 233MMX processor 32 MB RAM for Windows 95/98 48 MB RAM for Windows NT (recommended) 2 GB hard drive space (for data), 65 MB (for application) 800x600, 256 color display (minimum) Microsoft compatible pointing device (mouse) CD-ROM required for installation only

From your demo, generate project configuration files from your laptop or PC that can be used in a final system! Check the above specifications for minimum system requirements to try this revolutionary batching software for yourself!

Our IQ plus® line of indicators... Are solutions for every application. A model is included in your ZLC controller and available with ZLC Max software.

Windows is a registered trademark of Microsoft Corporation.
Pentium is a registered trademark of Intel Corporation.

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