

ZLC™ 421 ZERO LANGUAGE CONTROLLER

- Pentium class industrial PC
- Automated batching, manual batching or combination
- Materials can be added via scales, flow meters, or hand added
- Stores thousands of materials and recipes used by system (limited only by disk space)
- Auto-learn preact
- Auto-jog
- Inventory tracking and reporting
- Batch tracking and reporting (inventory tracking, user activity, batch activity, enhanced batch report, and data listings)
- Graphic real-time display
- System alarm output
- Single- or dual-speed fills
- Database backup/restore
- English/Spanish versions
- Three levels of security (administrator, supervisor, operator)
- Reporting follows indicator units of measure (lbs, kgs, tons, grams, etc.)
- 144 input/output points using OPTO 22 G4 I/O modules
- Safety interlocks
- Loss of power batch recovery
- Control lights, gates, motors, conveyors, blenders, scanners, flow meters, pumps, valves and more



PART #	DESCRIPTION	SUGGESTED LIST PRICE
N/A	ZLC™ 421 Controller	Consult factory

OPTIONS/ACCESSORIES

49580	Card, input/output digital 144 point	\$795.00
49581	Card, input/output digital 48 point	395.00

CONSULT FACTORY FOR THESE OPTIONS/ACCESSORIES

- Connecting to flow meters
- Connecting to computer network
- Ethernet connectivity
- Three indicators per system
- 288 input/output points

CB-1 CONCRETE BATCH CONTROLLER

- Controls for 3 types of cement, 4 aggregates, 6 admixtures, 1 metered water control
- Two-speed concrete batching
- Real-time display of batch status
- NEMA 4 mild steel enclosure
- User-friendly backlit touchscreen interface with 32-key tactile membrane keypad
- OPTO 22 G4 I/O module outputs
- Optoisolated inputs
- Gross/net weighing modes
- 100 mix designs
- Autolearn preact algorithms
- Advanced self-test screen
- RATTLETRAP® vibration control
- Configurable ingredient setup
- Reporting includes batch and material usage reports
- Safety interlocks and system alarm output
- Adjustable control of cement and aggregate inching gates
- Moisture compensation for aggregates
- Controls for cement and aggregate vibrators
- Automatic discharge rate control



PART #	DESCRIPTION	EST. SHIP WEIGHT	SUGGESTED LIST PRICE
43267	CB-1 Concrete Batch Controller, 115 VAC	45 lb	\$6,995.00
45093	CB-1 Concrete Batch Controller, 230 VAC	45 lb	7,495.00
45095	CB-1 Concrete Batch Controller without indicators, 115 VAC	38 lb	5,995.00
45094	CB-1 Concrete Batch Controller without indicators, 230 VAC	38 lb	5,995.00

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CB-1 CONCRETE BATCH CONTROLLER (CONT.)

PART #	DESCRIPTION	SUGGESTED LIST PRICE
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OPTIONS/ACCESSORIES

48418	PC program to upload/download parameter files	\$295.00
45045	Additional installation/operation manual	55.00

CONSULT FACTORY FOR THESE OPTIONS/ACCESSORIES

- Controls for cement and aggregate vibrators
- NEMA 4X stainless steel enclosure
- Audible alarms
- Weighed water control
- Simulator
- Moisture probe
- Printer cable

BWC-1 BULKWEIGHING CONTROLLER

- Single-scale bulkweighing
- Up to 50 different products
- Two-speed fill for accurate drafts
- Automatic and manual operating modes
- Learned preacts for accurate filling
- NEMA 4 mild steel enclosure
- OPTO 22 G4 I/O modules
- RATTLETRAP® vibration control
- Safety interlocks for hopper gates
- Subtotal draft printing
- Shipping and receiving modes
- User selectable alarm outputs
- Automatic build-up test
- Flow monitoring
- 48-segment bar graph display of sequence, draft process, or progress to target



FGIS/GIPSA
approved



PART #	DESCRIPTION	EST. SHIP WEIGHT	SUGGESTED LIST PRICE
43262	BWC-1 Bulkweighing Controller, 115 VAC	40 lb	\$3,695.00
48421	BWC-1 Bulkweighing Controller, 230 VAC	40 lb	3,695.00
48419	BWC-1 Bulkweighing Controller, 115 VAC, NEMA 4X SST ...	40 lb	4,395.00
48420	BWC-1 Bulkweighing Controller, 230 VAC, NEMA 4X SST ...	40 lb	4,395.00

OPTIONS/ACCESSORIES

65084	5' RS-232C printer interface cable assembly	25.00
65083	5' Epson printer status interface cable assembly	45.00

CONSULT FACTORY FOR THESE OPTIONS/ACCESSORIES

- Manual override switches
- Audible alarms
- RS-485 two-wire interface
- Simulator

ATS-1 AUTOMATED TRUCK SCALE SYSTEM

- Operator prompting
- Formattable tickets that print at the end of a transaction
- Traffic light control
- Transmits weight to remote display (only when activated)
- 115 VAC
- Currency acceptor (US currency only)



DESCRIPTION	EST. SHIP WEIGHT	SUGGESTED LIST PRICE
ATS-1 Automated Truck Scale Controller	40 lb	\$4,995.00

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ATS-1 AUTOMATED TRUCK SCALE SYSTEM (CONT.)

PART #	DESCRIPTION	SUGGESTED LIST PRICE
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OPTIONS/ACCESSORIES

43598	SURVIVOR® IQ F15, 1.5" flip digit remote display, 115/230 VAC	\$995.00
40879	SURVIVOR® IQ F40, 4.0" flip digit remote display, 115/230 VAC	1,495.00
40880	SURVIVOR® IQ F60, 6.0" flip digit remote display, 115/230 VAC	1,950.00
36966	Internal heater	345.00
21159	Internal transient protection	225.00
23146	Traffic light	450.00
49567	Kiosk ticket printer	3,995.00

CONSULT FACTORY FOR THESE OPTIONS/ACCESSORIES

- Stainless steel enclosure
- Foreign currency acceptor
- RF tags/antenna for truck IDs
- Bar code badge scanner
- 230 VAC
- Weather shroud

ATS-2 AUTOMATED TRUCK SCALE SYSTEM

- TransAct™ PC software
- Current production PC
- Okidata 320 Turbo printer with serial card
- **ATS-2 controller:**
 - Large, bright, easy-to-read VFD display for operator prompting
 - Vandal-proof cast aluminum numeric keypad
 - Bar code badge scanner
 - System and printer status lights
 - Kiosk ticket printer
- Traffic light kit (one red/green light)
- 50 pre-printed security badges
- **ATS-2 Plus:**
 - Same features as ATS-2, with TransAct Plus full accounting package PC software



PART #	DESCRIPTION	SUGGESTED LIST PRICE
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44015	ATS-2 Automated Truck Scale System, 115 VAC	\$16,985.00
44014	ATS-2 Plus Automated Truck Scale System, 115 VAC	19,485.00

OPTIONS/ACCESSORIES

43598	SURVIVOR® IQ F15, 1.5" flip digit remote display, 115/230 VAC	995.00
40879	SURVIVOR® IQ F40, 4.0" flip digit remote display, 115/230 VAC	1,495.00
40880	SURVIVOR® IQ F60, 6.0" flip digit remote display, 115/230 VAC	1,950.00
43898	TransAct Version 3.1.14A (ATS-2 compatible)	2,495.00
43899	TransAct Plus Version 3.1.14A (ATS-2 compatible)	4,995.00
36966	Internal heater for controller	345.00
21159	Internal transient protection for controller	225.00
23146	Additional traffic light kit, 115 VAC	450.00
48397	Additional operation manual	55.00

CONSULT FACTORY FOR THESE OPTIONS/ACCESSORIES

- UPS power supply
- SP2200 ticket printer
- RF modem
- RF tags/antenna for truck IDs
- RF transmitter for remote displays
- Currency acceptors
- Stainless steel controller enclosure
- Loop detectors
- Satellite controller for control at both ends of the scale
- Multiple deck truck scale control
- 230 VAC
- Card reader

IMC-1 IN-MOTION CHECKWEIGHING SYSTEM

- **Controller**
 - NEMA 4X enclosure and keypad
 - 115 VAC operation
 - Easy-to-use menu-driven display
 - 75 discrete product set-ups
- **Conveyor**
 - 28" through 5'6" long
 - Long life 1/2 HP gear motor and drive belt
- **Scale**
 - Rugged, one load cell design
 - Stainless steel flexures



Complete system includes: controller, scale, and conveyor.



DESCRIPTION

SUGGESTED LIST PRICE

IMC-1 In-Motion Checkweighing System standard unit \$12,845.00

CONSULT FACTORY FOR THESE ADDITIONAL OPTIONS

- Custom support stand
- Special conveyor lengths 28" to 47" or 49" to 60"
- Special stainless steel coatings available
- Statistical analysis package
- Additional operating manual



SORTATION/CLASSIFIER SYSTEMS

- Optical encoder based distance measuring (not time based) to assure divert accuracy
- Rugged stainless steel tube structure design
- Infeed/Scale/Sorting conveyors built for the application specifications (length, width, height, number of diverts, etc.)
- Designed for easy daily washdowns of the food industry
- Stainless steel conveyors specifically designed for sorting/classifying food product such as meat, poultry, fish, fruits, vegetables, dairy, hides, etc.
- Stainless steel divert arms are standard for thorough and easy cleaning
- Scale sorting systems use standard in-motion scale equipment
- 23 potential diverts locations
- Current divert count display
- Current divert accumulation display
- Total divert count display
- Total divert accumulation display
- Configurable screen display, divert capacity shut off by product count settings, divert capacity shut off by accumulation, product grade naming, input for exterior grading interface
- Duplicate divert parameters can be paired between two diverts to allow continuous sorting regardless of fill status
- Ability to change the divert configuration while system is sorting
- Ability to view digital inputs, communication inputs, input buffers, divert buffers, group values and divert status during operation
- Divert open/close testing function to allow quick trouble shooting
- Totals reports via optional external printers/computers



Sortation/classifier system

DESCRIPTION

SUGGESTED LIST PRICE

Sortation/Classifier System standard unit Application dependant

CONSULT FACTORY FOR THESE ADDITIONAL OPTIONS

- Bins, combo, or pack-off stations at diverts
- Push or pull diverts

ALLEN-BRADLEY COMPONENTS



SLC 500



Industrial computer

PART #	A-B PART#	DESCRIPTION	SUGGESTED LIST PRICE
49593 ...	1746-P2	Power supply SLC 500	\$585.00
49592 ...	1746-A13	Chassis 13-slot SLC 500	850.00
49591 ...	1746-A10	Chassis 10-slot SLC 500	620.00
49590 ...	1746-A7	Chassis 7-slot SLC 500	415.00
49589 ...	1746-A4	Chassis 4-slot SLC 500	285.00
49588 ...	1747-L542	Processor SLC5/04 32 K	2,690.00
49587 ...	1747-SN	Module, remote I/O scanner SLC 500	1,335.00
49586 ...	1746-IA16	Module, input 120 VAC, 16-channel	385.00
49585 ...	1746-OW16	Module, output, relay, 16-channel SLC 500	405.00
49584 ...	1746-NIO4V	Module, analog, 2 selectable inputs, two 0-10 VDC voltage outputs	1,170.00
49583 ...	1746-NIO4I	Module, analog, 2 selectable inputs, two 0-20mA current outputs	1,170.00
49582 ...	ABO-2711K6C8	PanelView 600 color display	3,375.00
49579 ...	6180-BFCBEGAZCBZ ..	Industrial computer 11.3 TFT display (NEMA 4) ..	9,775.00

SOLAR POWER SYSTEMS

- 12 or 24 VDC power output
- System includes solar panels, charging controller, deep cycle battery and disconnects
- Systems range from 114 Watts to 4 Watts
- Many different mounting configurations available
- Compatible with IQ plus 310A DC, RD 300 DC, RD 232 DC, Power verton and RF radios



Compatible
with DC-powered
Rice Lake
Indicators!

DESCRIPTION	EST. SHIP WEIGHT	SUGGESTED LIST PRICE
Solar Power System	7 lb	Consult factory

INTERCOM SYSTEMS

- Proven in truck scale applications
- Both single- and multi-channel operation
- Hands-free operation
- Superior clarity in noisy areas



PART #	DESCRIPTION	EST. SHIP WEIGHT	SUGGESTED LIST PRICE
51806	TAP-1R-CM Automation Master	7 lb	\$565.00
51807	TAP-4R-CM Automation Master	7 lb	845.00
51804	TAP-200C Amplifier	10 lb	1,195.00
51808	TAP-JB204A Junction Box	6 lb	545.00
51805	KC-20 Horn Speaker	6 lb	245.00

KEYPADS

PART #	DESCRIPTION	SUGGESTED LIST PRICE
43932	Sealed, detachable 84-key keyboard with RS-232 encoder	\$595.00
42114	Waterproof 82-key keyboard with RS-232 encoder (panel mount)	395.00
22478	Waterproof alpha and numeric keypads* (panel mount)	145.00
36914	Vandal-proof cast aluminum keypad*	135.00
38472	Keypad encoder	395.00
	<i>*Requires Part #38472</i>	

ALARMS

PART #	DESCRIPTION	SUGGESTED LIST PRICE
22838	Buzzer, 80 dB, steady	\$130.00
22839	Buzzer, 80 dB, pulse	130.00
43931	Strobe lights, red	145.00
43930	Strobe lights, amber	145.00
43929	Strobe lights, blue	145.00

TRAFFIC LIGHT KITS

PART #	DESCRIPTION	EST. SHIP WEIGHT	SUGGESTED LIST PRICE
23146	Traffic Light Kit, 8", 60W, mounting hardware that mounts to a 4" pipe, 115 VAC	25 lb	\$450.00

INPUT/OUTPUT COMPONENTS

PART #	DESCRIPTION	SUGGESTED LIST PRICE
43942	Allen-Bradley multi-function relay with digital display	\$325.00
29616	Dayton multi-function relay	195.00
21159	EL266 AC transient protection board	225.00
OPTO 22 COMPONENTS		
15973	IO 104 – 4-channel relay board	65.00
15975	IO 116 – 16-channel relay board	215.00
41035	16-position jumper strap	20.00
21735	4A fuse, G4	4.00
26834	1A fuse, G4	3.50
36954	Input test module	65.00
15969	10-32 VDC input relay module	30.00
15972	AC input relay module, 115 VAC	30.00
36631	AC input relay module, 230 VAC	28.00
15970	100 VDC/130 VAC dry contact output relay module	35.00
15971	Solid state AC output relay module, 115 VAC	28.00
36632	Solid state AC output relay module, 230 VAC	28.00
22847	24-280 VAC output relay module (N/C)	28.00
22848	100 VDC/130 VAC dry contact relay module (N/C)	28.00
OTHER RELAYS		
15952	8-pin octal relay, AC/DC output, 10A, 120 VAC coil	54.00
15960	8-pin octal relay, AC/DC output, 10A, 6 VDC coil	30.00
15961	8-pin octal socket	20.00

MODEM

Fax modems

- 33.6K bits per second or 14.4K bits per second, depending on modem
- Auto-answer feature
- Fax capable
- Externally mounted
- Indicator lights



33.6K Fax Modem

PART #	DESCRIPTION	EST. SHIP WEIGHT	SUGGESTED LIST PRICE
43928	33.6K Fax modem	5 lb	\$395.00

EZ-COM WIRELESS LAN TRANSCEIVER

- 2000 ft obstructed, 20 miles line-of-sight with Yagi antenna
- Omni-directional antenna
- High immunity to interference and jamming
- High speed 500 kbs data range
- Built-in clear channel assessment
- Multiple station configuration



PART #	DESCRIPTION	EST. SHIP WEIGHT	SUGGESTED LIST PRICE
43798	WL9D-MOD EZ-Com Wireless LAN Transceiver	10 lb	\$2,595.00

OPTIONS/ACCESSORIES

43797	Directional Yagi antenna	295.00
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Note: Requires two transceivers for complete system. Requires programming prior to shipment.

TRILITHIC TRANSCEIVER

- Internal omni-directional antenna
- Spread spectrum technology
- 300 ft obstructed 3000 ft line-of-sight



PART #	DESCRIPTION	EST. SHIP WEIGHT	SUGGESTED LIST PRICE
52378	Transceiver*	2 lb	\$795.00
63110	Transceiver kit**	5 lb	1,575.00

OPTIONS/ACCESSORIES

52376	Yagi antenna	345.00
52377	Patch antenna	210.00
52375	Omni antenna	50.00
65414	Window antenna	195.00

* Requires two transceivers for complete system. Antenna not included with transceiver.

** Kit includes 2 transceivers, manual and configuration software. Antenna not included with kit.

ETHERNET THIN SERVER

- Supports any asynchronous serial device with 7- or 8-bit data, with or without parity requiring Ethernet access
- Compact size, smaller than a deck of playing cards
- Supports RS-232, RS-422 and RS-485
- 10 MB Ethernet throughput the RJ-45 connector
- Configure via HTTP, SNMP, DHCP or Telnet
- Flash ROM for easy software upgrades
- 115 VAC external adapter



PART #	DESCRIPTION	EST. SHIP WEIGHT	SUGGESTED LIST PRICE
65383	Ethernet Thin Server	3 lb	\$695.00

MODEL 8555 LOAD CELL TO FREQUENCY CONVERTER

- 0 to 50 mV differential analog input
- Frequency output to 5 kHz
- Compatible with PLC high-speed counter inputs
- Includes 10V excitation supply
- Isolated input to output
- 12 bit resolution
- Din rail mountable
- Operates on 24 VDC supply



PART #	DESCRIPTION	EST. SHIP WEIGHT	SUGGESTED LIST PRICE
65415	Model 8555 Converter	1 lb	\$175.00

430 BRIDGESENSOR

- 4-20 mA, 0-20 mA or 12 $\pm$ mA output
- Potentiometer-adjustable excitation, zero offset and span gain
- 115 VAC: $\pm 10\%$ 50/60 Hz at 6.5 VA
230 VAC: $\pm 20\%$ 50/60 Hz at 6.5 VA
- Screw terminal connections
- Single-point component design
- Remote sensing for line voltage drop compensation



PART #	DESCRIPTION	EST. SHIP WEIGHT	SUGGESTED LIST PRICE
20975	430 Bridgesensor, 115 VAC	2 lb	\$375.00
35276	430 Bridgesensor, 230 VAC	2 lb	395.00

API 4058G - 441/442 BRIDGESENSORS

API 4058G Bridgesensor

- User-selectable input/output ranges and excitation voltages
- Convenient setup via rotary and slide switches
- Excitation voltage at 115 mA (10V) drives four 350-ohm load cells
- LED input/output signal indicators
- Selectable voltage or current outputs
- Functional test pushbutton

441/442 Bridgesensors

- Input/output ranges and excitation voltage are selectable by easy-access rotary switches
- Non-interactive zero and span control
- Offset switch allows cancelling or "taring" of non-zero deadweights
- Excitation voltage of 115 mA (10V) drives up to four 350-ohm bridges
- Input/output LoopTracker™ LEDs show input/output status
- Functional test pushbutton with fixed level output to facilitate setup and troubleshooting
- Full isolation (input/output power) eliminates the effects of ground loops and noise



API 4058G
Bridgesensor

PART #	DESCRIPTION	EST. SHIP WEIGHT	SUGGESTED LIST PRICE
22778	API 4058G Bridgesensor	2 lb	\$395.00
38902	441 Bridgesensor, 115 VAC	2 lb	440.00
38904	442 Bridgesensor, 9-30 VDC	2 lb	495.00
46719	433 Bridgesensor, 4-20 mA/0-20 mA, 115 VAC	2 lb	495.00
46720	466 Bridgesensor, 0-10 VDC, 115 VAC	2 lb	495.00