

**Integrated  
Control  
Systems**

# PRODUCT CATALOG



## PA1 Pulse Analyzer

- A specialized troubleshooting tool for the petroleum service technician. The Pulse Analyzer saves time and trouble by quickly and accurately finding the cause of a pulser problem with a console or card system.



The PA1 Pulse Analyzer can quickly determine the cause of a pulser problem. It can check the output of most pulsers either stand-alone or in-circuit with a console or card system. It can also generate a pulse output for testing a console or card system's input circuitry.

The Pulse Analyzer uses a sturdy watertight enclosure for extra durability. Test leads are included and store inside the case when not in use. There is even an automatic shutoff feature to save battery power. The ICS Pulse Analyzer will be a valuable troubleshooting tool for the service technician.

### SPECIFICATIONS

General		Electrical	
Operating Modes:	Contact Closure test, In-Circuit test, Pulse Output	Max. pulse input speed:	200 pulses/sec (normal mode) 1000 pulses/sec (high speed mode)
Display:	4 Digit LCD	Pulse out volts:	0 to 300V DC
Test Leads:	3 ft. w/alligator clips	Power Source:	9V Transistor Battery
Enclosure:	6" x 4.75" x 2.25" weather sealed with hinged lid and lanyard		

### MODEL NUMBERS AND LIST PRICING

Model Number:	Description:	List Price:
PA1	Pulse Analyzer w/leads & manual	\$249.95

**Integrated Control Systems Inc.**  
P.O. Box 541058  
Grand Prairie, TX. 75054-1058  
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For more information, please visit our website at:

[WWW.INTCONSYS.COM](http://WWW.INTCONSYS.COM)

## SP1 Smart Pulser

- The SP1 Smart Pulser was designed to fit any Veeder-Root™ computer, so stocking multiple pulser models is unnecessary. The SP1 was designed to be very durable, and contains special circuitry which makes it more accurate than any other pulser on the market.



### ALL METAL Construction!

- Cast aluminum housing. (No plastic!)
- Machined aluminum coupling shaft. (No more breakage!)
- Stainless Steel encoder wheel is impervious to the elements.
- Dual bearing construction promotes long pulser life.
- Microprocessor controlled direction sensing eliminates over-counts due to pump vibration or meter backlash.
- Configuration setting made in pulser head for easy access.
- Intrinsically safe circuitry, no conduit required!
- Environmentally coated circuitry eliminates moisture problems.
- Heavily filtered power supply eliminates noise problems.
- Extended temperature operation. (-40 to 150 degrees F)
- Compatible with ALL Veeder Root mechanical computers (101, 2001, 2002, 2002E, VR-10, VR-10/4) for money or gallons.
- Small size allows mounting where other pulsers cannot.
- 12VDC and 120VAC models available.
- Dual output model available.
- 2 year warranty

### SPECIFICATIONS

	Input (Black Wires)	Output (Red Wires)	
Operating Voltage:	12VDC (SP1-12-SO-B) or (SP1-12-DO-B) 110VAC (SP1-110-SO-B) or (SP1-110-DO-B)	Switching Voltage:	5 to 350 Volts AC or DC
Operating Temperature Range:	-40 to 150 degrees F.	Maximum Current	300mA
Maximum Speed:	240 RPM	ON Resistance	23-35 Ohms

### MODEL NUMBERS AND LIST PRICING

Model Number:	Description:	List Price:
SP1-12-SO-B	12VDC Single Output	\$179.99
SP1-12-DO-B	12VDC Dual Output	\$199.99
SP1-110-SO-B	110VAC Single Output	\$179.99
SP1-110-DO-B	110VAC Dual Output	\$199.99

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## MR1 Pulser

- The MR1 Pulser was designed to fit all FillRite meter-registers, as well as the Dresser Wayne 700R meter-register. The MR1 contains a digital pulse filter, which eliminates overcounting due to vibration.



- 10 pulses per gallon output, no configuration required.
- Digital pulse filtering eliminates overcounts.
- Simple bolt on installation.
- Intrinsically safe circuitry, no conduit required!
- Environmentally coated circuitry eliminates moisture problems.
- Heavily filtered power supply eliminates noise problems.
- Extended temperature operation. (-40 to 150 degrees F)
- 12VDC and 120VAC models available.
- Dual output model available.
- 2 year warranty
- List price \$149.95



### SPECIFICATIONS

	Input (Black Wires)		Output (Red Wires)
Operating Voltage:	12VDC (MR1-12-SO-A) or (MR1-12-DO-A) 110VAC (MR1-110-SO-A) or (MR1-110-DO-A)	Switching Voltage:	5 to 350 Volts AC or DC
Operating Temperature Range:	-40 to 150 degrees F.	Maximum Current	300mA
Maximum Speed:	50 GPM	ON Resistance	23-35 Ohms

### MODEL NUMBERS AND LIST PRICING

Model Number:	Description:	List Price:
MR1-12-SO-A	12VDC Single Output	\$149.99
MR1-12-DO-A	12VDC Dual Output	\$169.99
MR1-110-SO-A	110VAC Single Output	\$149.99
MR1-110-DO-A	110VAC Dual Output	\$169.99

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## GB1 Pulser

- The GB1 Pulser was designed to fit the Gasboy meter-registers that have a pushbutton style reset. The GB1 contains a digital pulse filter, which eliminates overcounting due to vibration.



- Fits Gasboy meter-registers with pushbutton style reset.
- 10 pulses per gallon output, no configuration required.
- Digital pulse filtering eliminates overcounts.
- Simple bolt on installation.
- Intrinsically safe circuitry, no conduit required!
- Environmentally coated circuitry eliminates moisture problems.
- Heavily filtered power supply eliminates noise problems.
- Extended temperature operation. (-40 to 150 degrees F)
- 12VDC and 120VAC models available.
- Dual output model available.
- 2 year warranty



### SPECIFICATIONS

	Input (Black Wires)		Output (Red Wires)
Operating Voltage:	12VDC (GB1-12-SO-A) or (GB1-12-DO-A) 110VAC (GB1-110-SO-A) or (GB1-110-DO-A)	Switching Voltage:	5 to 350 Volts AC or DC
Operating Temperature Range:	-40 to 150 degrees F.	Maximum Current	300mA
Maximum Speed:	50 GPM	ON Resistance	23-35 Ohms

### MODEL NUMBERS AND LIST PRICING

Model Number:	Description:	List Price:
GB1-12-SO-A	12VDC Single Output	\$149.99
GB1-12-DO-A	12VDC Dual Output	\$169.99
GB1-110-SO-A	110VAC Single Output	\$149.99
GB1-110-DO-A	110VAC Dual Output	\$169.99

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## GPI1 Pulser

- The GPI1 Pulser was designed to fit the new FM-530 or new style MD-130 meter-registers. The GPI1 contains a digital pulse filter, which eliminates overcounting due to vibration.



- Fits GPI meter-registers using the MD-130(New style) or FM-530 register.
- 10 pulses per gallon output, no configuration required.
- Digital pulse filtering eliminates overcounts.
- Simple bolt on installation.
- Intrinsically safe circuitry, no conduit required!
- Environmentally coated circuitry eliminates moisture problems.
- Heavily filtered power supply eliminates noise problems.
- Extended temperature operation. (-40 to 150 degrees F)
- 12VDC and 120VAC models available.
- Dual output model available.
- 2 year warranty
- List price \$149.95



### SPECIFICATIONS

Input (Black Wires)		Output (Red Wires)	
Operating Voltage:	12VDC (GPI1-12-SO-A) or (GPI1-12-DO-A) 110VAC (GPI1-110-SO-A) or (GPI1-110-DO-A)	Switching Voltage:	5 to 350 Volts AC or DC
Operating Temperature Range:	-40 to 150 degrees F.	Maximum Current	300mA
Maximum Speed:	50 GPM	ON Resistance	23-35 Ohms

### MODEL NUMBERS AND LIST PRICING

Model Number:	Description:	List Price:
GPI1-12-SO-A	12VDC Single Output	\$149.99
GPI1-12-DO-A	12VDC Dual Output	\$169.99
GPI1-110-SO-A	110VAC Single Output	\$149.99
GPI1-110-DO-A	110VAC Dual Output	\$169.99

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## VR1 Pulser

- The VR1 Pulser was designed to fit the Veeder Root® model 7886 or 7887 meter-registers. It contains the same direction sensing technology as our SP1 pulser, which eliminates pulse errors due to vibration or meter backlash. The VR1 pulser brings electronic pump accuracy to commercial fueling.



- Fits both 7886 and 7887 meter-registers.
- Fits inside existing meter-register cabinet for easy installation.
- Generates either 1, 10, or 100 pulses per gallon.
- Microprocessor controlled direction sensing eliminates over-counts due to pump vibration or meter backlash.
- Up to 2500 gallons/minute on 7886 and 250 gallons/minute on 7887.
- Machined aluminum coupling shaft.
- Stainless Steel encoder wheel is impervious to the elements.
- Dual bearing construction promotes long pulser life.
- Configuration setting made in pulser head for easy access.
- Intrinsically safe circuitry, no conduit required!
- Environmentally coated circuitry eliminates moisture problems.
- Heavily filtered power supply eliminates noise problems.
- Extended temperature operation. (-40 to 150 degrees F)
- 12VDC and 120VAC models available.
- Dual output model available.
- 2 year warranty



### SPECIFICATIONS

Input (Black Wires)		Output (Red Wires)	
Operating Voltage:	12VDC (VR1-12-SO-A) or (VR1-12-DO-A) 110VAC (VR1-110-SO-A) or (VR1-110-DO-A)	Switching Voltage:	5 to 350 Volts AC or DC
Operating Temperature Range:	-40 to 150 degrees F.	Maximum Current	300mA
Maximum Speed:	250 RPM	ON Resistance	23-35 Ohms

### MODEL NUMBERS AND LIST PRICING

Model Number:	Description:	List Price:
VR1-12-SO-A	12VDC Single Output	\$179.99
VR1-12-DO-A	12VDC Dual Output	\$199.99
VR1-110-SO-A	110VAC Single Output	\$179.99
VR1-110-DO-A	110VAC Dual Output	\$199.99

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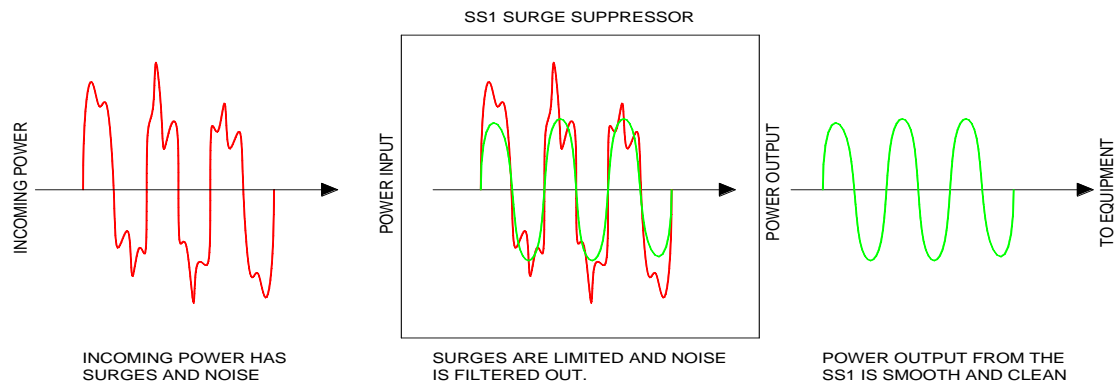
## SS1 Surge Suppressor / Power Line Filter

- Petroleum electronics like Card Systems, Tank Monitoring Systems, and Consoles have unique power problems. Long runs of field wiring, connection with inductive loads, and noisy power sources contribute to problems with equipment. The SS1 Surge Suppressor was designed specifically for petroleum equipment applications. It contains 7 stages of surge suppression and power line filtering to block spikes and only allow smooth continuous power to the equipment.



COVER REMOVED TO SHOW COMPONENTS

**BEWARE:** Most units sold as surge suppressors employ only the cheapest and slowest devices to protect your equipment. The SS1 is a serious surge suppressor with the latest technology suppression devices and 7 stages of protection. It reacts to surges instantly, and can dissipate up to 10,000 Amps of surge current!



### SPECIFICATIONS

Voltage Rating:	120VAC Nominal, 135VAC Max.	Suppressor Type:	Series Connected
Max Load Current:	7 Amps Continuous	Capacitance	0.1 $\mu$ F input to input
Max Discharge Current	10,000 Amps, 20 $\mu$ S Impulse 50 Amps RMS	Inductance	68 to 100 mH Input to Output
Case Size:	3.3" x 3.3" x 1.25"		

### MODEL NUMBERS AND LIST PRICING

Model Number:	Description:	List Price:
SS1-ST	SS1 Suppressor with screw terminals	\$149.95
SS1-PL	SS1 Suppressor with plug and outlet	\$149.95

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## ES1 Emergency Pump Stop Switch

- An emergency stop switch is required by electrical code to shut off all fueling operations in the event of an emergency. (NFPA 30a, CH4, Section 4-1.2)



The ES1 switch is designed to fulfill the NFPA code requirements. It uses a heavy cast aluminum, weather sealed, NEMA 4X enclosure with stainless steel hardware. The switch is a large (40mm) red, single or double pole, 10 amp normally closed unit. The ES1 has a highly visible, bright yellow sign on the front panel for easy identification in an emergency. All components of the ES1 are UL listed.

### SPECIFICATIONS

CABINET		SWITCH	
Material:	Heavy Duty Cast Aluminum	Type:	Normally Closed SPST or DPST
Hardware:	Stainless Steel	Rating:	10A@120VAC or 6A@240VAC
Classification:	NEMA 4X – weather sealed	MTBF:	10,000 Operations
Listings:	UL (US and Canada)	Listings:	UL (US & Canada) CE
Case Size:	4.5" x 3.5" x 1.25"		

### MODEL NUMBERS AND LIST PRICING

Model Number:	Description:	List Price:
ES1-SP	ES1 with single pole switch	\$139.95
ES1-DP	ES1 with double pole switch	\$159.95

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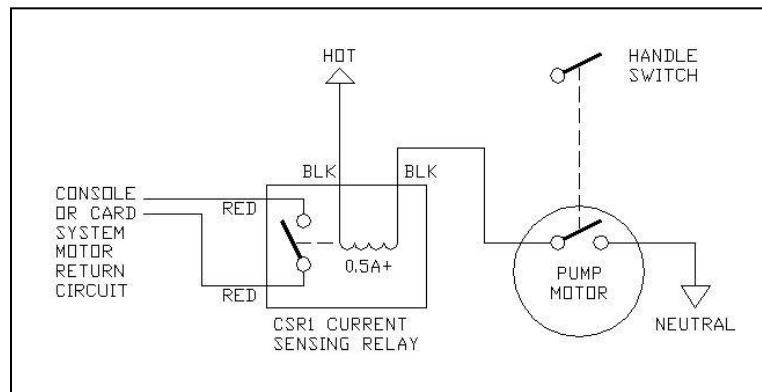
## CSR1 Current Sensing Relay

- The CSR1 current sensing relay is designed to operate in fuel pumps with sealed switch motors, which do not contain an extra switch contact for use with a console or card system.



The CSR1 is designed to be wired in series with the pump motor. (black wires) When the pump motor activates and draws more than 0.5 amps, the CSR1 switches the red wires together, providing a motor return signal for a console or card system. The CSR1 can be located either in the pump, or in the console or card system cabinet.

Typical Wiring



### SPECIFICATIONS

Input (Black Wires)		Output (Red Wires)	
Voltage:	110VAC or 220VAC	Switching Voltage:	5 to 350 Volts AC or DC
Minimum trigger current:	0.5A	Maximum Current	300mA
Maximum Current:	10A	ON Resistance	23-35 Ohms
Switching Time:	1mS		
Case Size:	3" x 1.5" x 1"		

### MODEL NUMBERS AND LIST PRICING

Model Number:	Description:	List Price:
CSR1	CSR1 Current Sensing Relay	\$129.95

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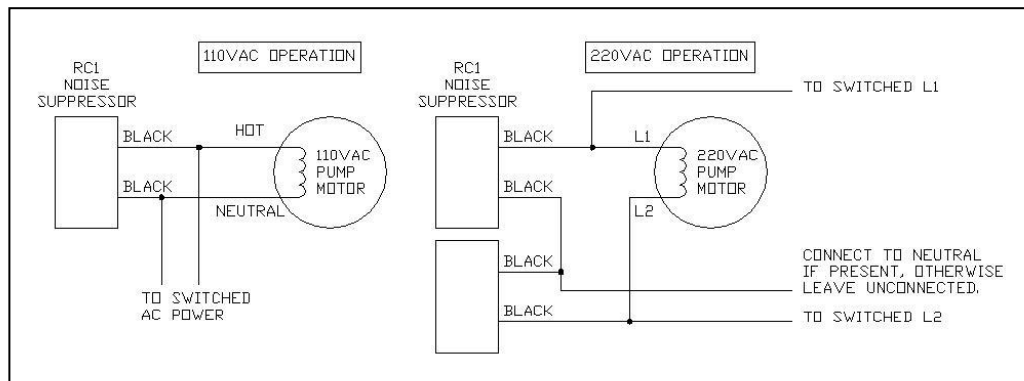
## RC1 Noise Suppressor

- The RC1 Noise Suppressor is designed to eliminate noise caused by switching of inductive loads. Pump motors, solenoid valves, motor contactors, and other inductive loads cause high voltage spikes on the AC line when they are switched on or off. The RC1 eliminates these spikes at the source, preventing them from affecting sensitive equipment.



Connect the RC1 directly across the hot and neutral wires of the load, as close as possible to the coil or motor winding. This will allow the RC1 to filter the inductive noise before it travels to other devices. For best results, install one RC1 on each suction motor, solenoid valve, and motor contactor at the site. The RC1 is constructed as small as possible to allow it to be mounted inside the junction box of the dispenser.

### Typical Wiring



### SPECIFICATIONS

Input (Black Wires)	
Voltage:	250 Vmax
Internal Capacitance:	0.1uF
Internal Resistance:	68 Ω
Dimensions:	1.0 x 0.6 x 0.4 Inches
Wire Length:	5 Inches

### MODEL NUMBERS AND LIST PRICING

Model Number:	Description:	List Price:
RC1	RC1 Noise Suppressor	\$19.95

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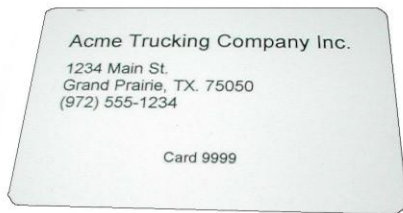
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## Phoenix System LinkTag Upgrade

- Tired of replacing Durakey sockets and worn out mag cards? ICS has the solution! Introducing the new LinkTag system! LinkTags are the next-generation technology for identification devices. They operate by transmitting short-range magnetic pulses, so they have no batteries, contacts or magnetic strips to wear out. ICS Has everything you need to upgrade your Phoenix system and eliminate the hassle of unreliable cards and keys.



Keyfob Style LinkTag



Card Style LinkTag



Phoenix System LinkTag Reader



Phoenix System LinkTag Programmer and Software

- DURABLE** – LinkTags contain solid state digital circuitry and a short-range antenna sealed in a plastic housing. They are impervious to moisture, magnetism, impact, and outdoor temperatures.
- RELIABLE** – LinkTags have an infinite number of read cycles. Since there are no contacts to wear out or batteries to die, they are more reliable than any previous technology!
- REUSABLE** - LinkTags can be reprogrammed thousands of times and are guaranteed to retain the programmed data for 10 years.
- CONVENIENT** – LinkTags are available in a keyfob style for use on a vehicle key ring, or card style for use as an employee badge or wallet card. Other styles are available for custom applications. ICS can also custom print the card style LinkTags with your company name and address for no extra charge.
- SECURE** - LinkTags use encryption technology to keep the programmed data secure. Each tag is programmed by ICS with a secure key known only to ICS LinkTag reader and programmer modules.
- SUPPORT** – The LinkTag system is fully supported and warranted by ICS. For more information, visit our website below or give us a call at: 972-642-6800.

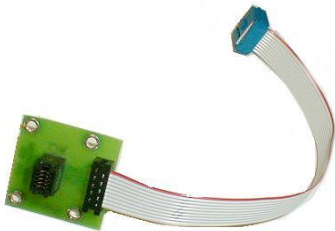
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## ICS Phoenix 8000 / AFC Replacement Parts

- ICS stocks a wide range of replacement parts for the Phoenix fuel management systems. We also repair all circuit boards and components of the Phoenix 8000 fuel management system. ICS technicians have years of experience with this system, and can troubleshoot and repair them quickly. If you have a question about a Phoenix 8000 system repair, please give us a call.



### Phoenix 8000 or Phoenix AFC Durakey Receptacles (P8000-DKR)

- Don't discard broken receptacles! Keep the plastic housing.
- Replace the functional part for half the cost of a new receptacle.
- New custom made receptacle contacts are superior to the original.
- List Price \$99.95



### Phoenix 8000\* Card Readers (P8000-CR-B)

- ICS Has designed a replacement card reader module specifically for Phoenix 8000 or Phoenix AFC systems.
- This model has dual read heads for superior reliability.
- Reads cards on both insertion and removal for reliable operation.
- List Price \$249.95



### Mag Stripe Cards (P8000-CR80-A)

- Replacement CR80 style magnetic stripe cards.
- Cards can be programmed by ICS for no extra charge.
- Cards can be printed with 4 lines of customer information for no charge.
- List Price \$1.99 each



### Phoenix 8000 or Phoenix AFC Keypad Upgrade (P8000-KP1-A)

- Cast metal keys. Rugged polymer housing.
- Much more durable than the original membrane keypad.
- Simple drill and bolt-on installation!
- Kit includes all instructions and hardware required for upgrade.
- List Price \$159.95

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## ICS Phoenix 8000 / AFC Replacement Parts (continued)



### Phoenix AFC Keypad Adapter Plate (PAFC-KP-PLT)

- This adapter plate allows the keypad above to be used with the Phoenix AFC system.
- Kit includes all instructions and hardware required for installation.
- List Price \$13.26



### Phoenix 8000 Replacement Display Module (P8000-LCD-A)

- Extended temperature 2 lines by 16 character backlit LCD module.
- Direct replacement for original Phoenix 8000 display.
- Kit includes all instructions and hardware required for replacement.
- List Price \$124.95



### Phoenix 8000 Replacement Journal Printer (P8000-LX300-N)

- Epson dot matrix printer programmed and modified for use with the Phoenix 8000 or Phoenix AFC system.
- Direct replacement for original Phoenix journal printer.
- Kit includes all instructions and hardware required for replacement.
- List Price \$466.48

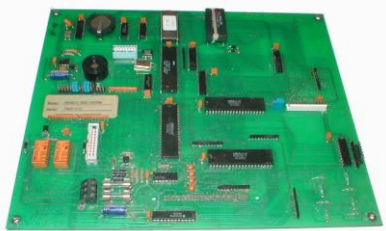
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## ICS Phoenix 8000 Repairs

- ICS has a full repair facility with test fixtures for the Phoenix 8000 system. We can repair all circuit boards and components. ICS technicians have years of experience with this system, and can troubleshoot and repair them quickly. If you have a question about a Phoenix 8000 system repair, please give us a call.



### **Phoenix 8000 CPU Board Repair**

\$199.95 List



### **Phoenix 8000 Pump Control Board Repair**

\$199.95 List



### **Phoenix 8000 ICB Board Repair (Any number of hoses)**

\$129.95 List



### **Phoenix 8000 TCI Repair**

\$129.95 List

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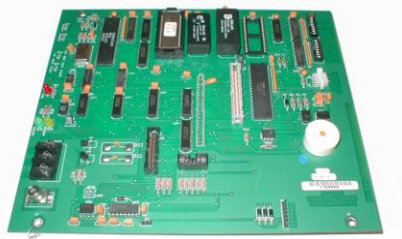
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## ICS Phoenix AFC Repairs

- ICS can repair most components of the Phoenix AFC system. If you have a problem with a Phoenix AFC system, give us a call!



### Phoenix AFC CPU Repair

(We can repair Rev. E2 or earlier)

\$269.95 List



### Phoenix AFC ICB Repair

(We can repair Rev. F or earlier)

\$129.95 List



### Phoenix AFC Power Supply Repair

(We can repair Rev. D or earlier)

\$129.95 List



### Phoenix AFC Printer/PC Adapter Repair

\$199.95 List

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## ICS Phoenix System Module Repairs

- ICS can repair Phoenix system modules for much less than the cost of replacement.



### Phoenix 8000 or AFC Card Reader Repair

\$199.95 List



### Phoenix 8000 Journal Printer Repair (Refurbished unit)

(Journal printers are refurbished. ICS Can ship refurbished printers when a printer core is received.)

\$299.95 List

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**Integrated  
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Systems**

## **PRODUCT WARRANTY**

Integrated Control Systems, hereafter referred to as ICS, warrants to Purchaser that Products are free from defects in material and workmanship for two (2) years after shipment. This warranty is conditioned upon proper storage, installation, connection, and operation of Products, prompt written notice to ICS of any defects, and, if required, prompt availability of Products to ICS for correction. Causes of failure which are not covered include, but are not limited to; acts of god (lightning, flooding, etc.) and customer abuse.

This warranty shall be void in its entirety if Purchaser modifies Products, without ICS advance written consent to and subsequent approval of any such modifications. If any Product fails to conform to this warranty, Purchaser properly notifies ICS of such failure, and Purchaser returns the Product to the ICS factory for diagnosis (and pays all expenses for such return), ICS shall correct any such failure by, at its sole discretion, either repairing any defective or damaged Product part(s) or making available any necessary replacement part(s). Any Product repaired by ICS shall be covered by this warranty for the remainder of the original two (2) year warranty period.

This warranty shall be exclusive and in lieu of all other warranties, whether statutory, express, oral or implied (including warranties of merchantability and fitness for particular purpose and warranties arising from course of dealing or usage of trade), except title and patent infringement. ICS does not warrant products or prototypes provided by ICS for testing or marketing purposes. ICS does not warrant non-ICS products or services.

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