



What do your television, office computer, stereo system and kitchen appliances all have in common? They are all most likely plugged into a surge protector or similar line protection device. So why is it that your most expensive investment - your central air conditioning and/or furnace system - is left to chance? As our population continues to grow and more gadgets and appliances are being plugged in, today's power grid is being taxed more than ever. This is leading to an abundance of power issues, including brownouts, surges and spikes. Not to mention that a single lightning strike from miles away can generate transients in the power lines that can have a ripple effect that can "fry" the circuit boards in any unprotected electronic device.

Buy with confidence.  
Buy ICM.

**"An ounce of prevention is worth a pound of cure."**

- Benjamin Franklin



# Lightning Has Met Its Match

*Protect your investment today to avoid expensive repairs tomorrow!*



ICM Controls is the Trusted Name for Protecting Your Valuable HVAC Equipment for More Than 30 Years

Learn more at  
[www.icmcontrols.com](http://www.icmcontrols.com)

LIM158





#### Common causes of power surges:

- Lightning Storms
- Downed Power Lines
- Substandard/Incorrect Wiring
- Power Outages / System Recovery
- Grid Overload
- Large Appliances Turning On/Off
- Old Electrical Components
- Short Circuits
- Loose Wiring

### Why do you need protection?

All homes are constantly under attack from power surges and spikes, even though they may not always be apparent. These energy irregularities can be caused from just about anything, including weather, poor wiring, old parts, not to mention an aging power grid that has difficulty handling today's energy demands. Over time, these repeated energy surges will wear down your equipment and reduce its life expectancy. It is common for homeowners to place surge protectors on their televisions, personal computers and appliances. However, people often forget about their HVAC system, which represents your home's most valuable electronic investment.

### Why ICM Controls?

You can't see the harmful surges and transients in your power lines, but ICM's products can! For more than 30 years, ICM Controls has been a recognized leader for manufacturing controls that protect your valuable HVAC equipment against today's most common and severe power threats. From basic surge protective devices to line voltage monitors to combination devices, ICM Controls has you covered. Consult your local HVAC contractor to determine which control is right for your application. Located in North Syracuse, NY, ICM's quality products are proudly manufactured in the USA.

#### ICM493



#### ICM517




#### ICM492



#### Glossary of Terms:

- **Spike:** Fast, temporary voltage increases lasting a short duration.
- **Surge:** Fast, temporary, yet uninterrupted voltage increase lasting a few microseconds in duration.
- **Overvoltage:** When the applied voltage exceeds the rated voltage's upper design limit in a circuit.
- **Undervoltage:** When the applied voltage falls below 90% of the rated voltage in a circuit for a duration of one minute or longer. This condition commonly leads to brownouts.
- **Short Cycle:** when the system turns on and off again quickly.

### Product Selection Matrix

Mfr.'s Part No.	Type	Protects Against					Limited Lifetime Guarantee
		Spike	Surge	Over Voltage	Under Voltage	Short Cycling	
ICM517 	SPD	X	X				X
ICM492	LVM			X	X	X	
ICM493	Combo	X	X	X	X	X	

SPD = Surge Protective Device; LVM = Line Voltage Monitor. Additional products available. Talk to your licensed contractor for more information.