

# HVAC Intelligent Voltage Monitoring

## Technical Specifications

<b>Voltage Configuration:</b>	120/240VAC Split $\Phi$ 120/208VAC Split $\Phi$
<b>Operating Frequency:</b>	50/60Hz
<b>Max. Continuous Current:</b>	40 Amps
<b>Undervoltage Protection Level:</b>	104VAC (L-G)
<b>Overvoltage Protection Level:</b>	130VAC (L-G)
<b>Short Cycle Delay:</b>	3 Minutes (Default) 30 Seconds (Selectable)
<b>Surge Current Rating:</b>	50,000A

## Mechanical Specifications

<b>Connection Method:</b>	Series-wired, 1/2" or 3/4" NPT Conduit Hardwired lugs: 8 AWG Max
<b>Housing:</b>	UL Type 4X Enclosure
<b>Dimensions:</b>	6.29" L x 6.29" W x 2.36" H (160 mm x 160 mm x 60mm)
<b>Weight:</b>	3 lb (1.36 kg)

## Quality, Standards & Approvals

<b>Certifications:</b>	UL 60947-1 Listed UL 60947-5-1 Listed
<b>Warranty:</b>	10 Year Limited Warranty

	<b>Condition Normal / On</b>	
	<b>Line 1 Over or Under / Off</b>	
	<b>Line 2 Over or Under / Off</b>	
	<b>Recovering from Line 1 Over or Under / Delayed</b>	
	<b>Recovering from Line 2 Over or Under / Delayed</b>	
	<b>Service Required / On</b>	
B = Blinking		A = Alternating

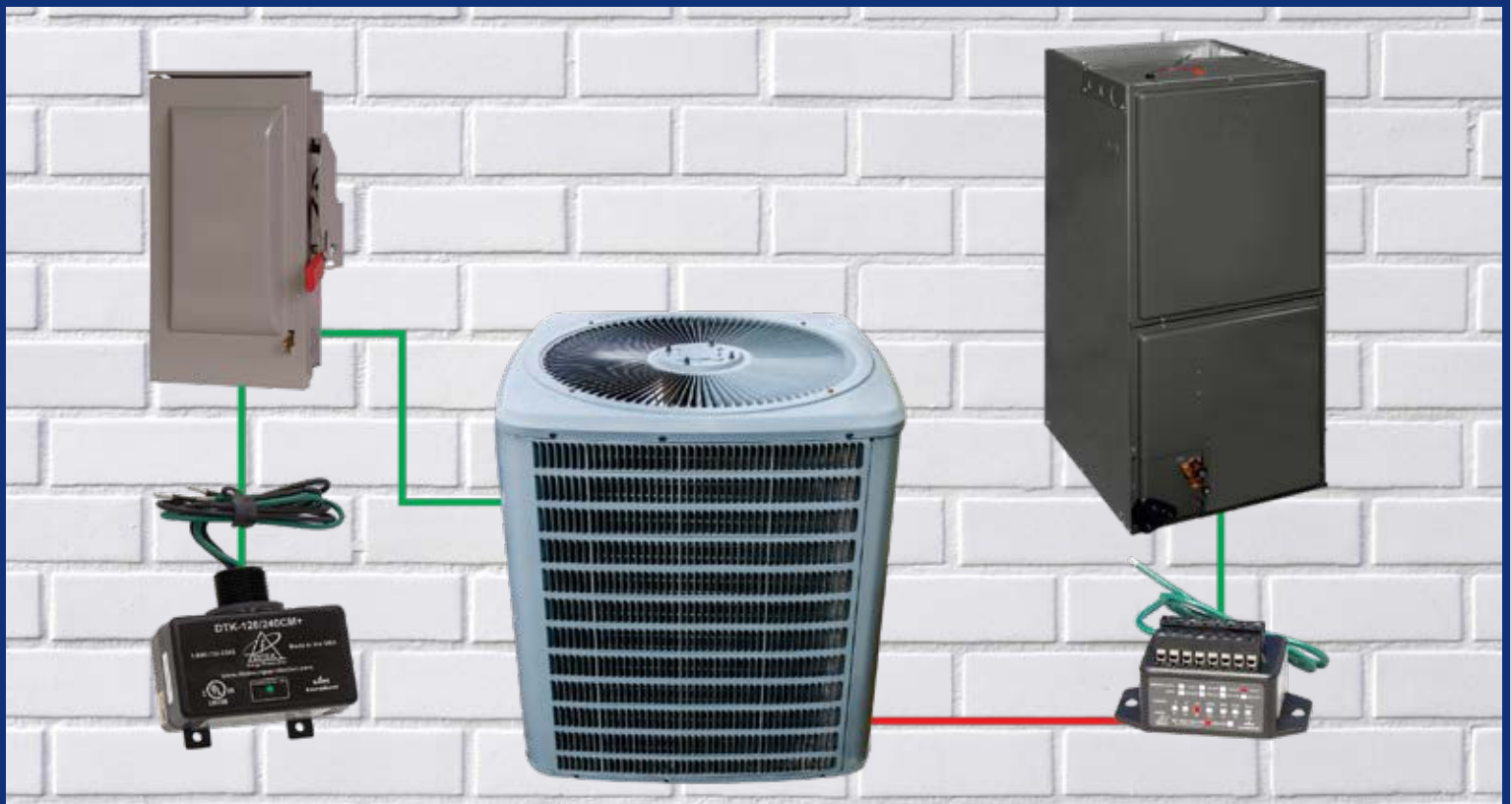


## DTK-KG2 Features & Specs

The DTK-KG2 is part of the Kool Guard series of intelligent voltage monitoring solutions and is specifically designed to monitor the input power supplying the equipment. If the voltage fluctuates outside of the preprogrammed under-and-over-voltage limits, it safely disconnects power to the equipment until voltage returns within the normal range. The DTK-KG2 also incorporates state-of-the-art surge protection to shield equipment from damaging surges and spikes; and the standard UL Type 4X polycarbonate enclosure allows for easy installation in harsh outdoor environments.

- Protection for under-voltage & over-voltage events
- Ideal for mini-splits, inverter driven compressor systems & ECM motors
- Safely disconnects power to the system for 3 minutes, allowing input voltage to return to normal range
- Diagnostic red & green LEDs indicate exactly what voltage condition is present
- Surge protection components included to divert transient voltages away from equipment
- UL 60947-1 & 60947-5-1 listed

# HVAC System Surge Protection



The average home or business can experience hundreds of potentially damaging power surges and spikes each year, and today's HVAC equipment is becoming more and more vulnerable to these unavoidable events. While a single event may show no obvious signs of damage, repeated surges cause gradual deterioration of the systems internal circuitry; resulting in destruction of expensive HVAC equipment without warning. Take action today, and make sure your heating and cooling system is protected against these damaging electrical events.

## DTK-120/240CM+ Features & Specs

- 120/240V UL 1449 Type 1 SPD
- Installs on load side of disconnect
- NEMA 4X weatherproof enclosure
- Diagnostic LED
- 3 year, \$7,500 connected equipment warranty



## DTK-4LVPLV Features & Specs

- 4-pair, 8-wire 24V surge protector
- Install in series with thermostat control wires at air handler
- Series connection & oversized ground wire for maximum protection



## DTK-120HW Features & Specs

- 120V UL 1449 Type 1 SPD
- Ideal for 120V furnace applications
- NEMA 4X weatherproof enclosure
- Diagnostic LED



## DTK-CMXPLUS Series Features & Specs

- UL 1449 Type 1 SPD
- NEMA 4X weatherproof enclosure
- Diagnostic LED
- **DTK-2403CMXPLUS:**  
208/240V 3 phase (3W + G)
- **DTK-4803CMXPLUS:**  
480V 3 phase (3W + G)

