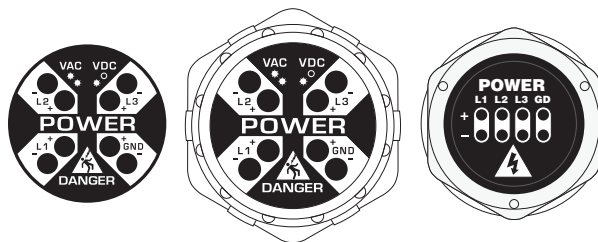


# UPA VOLTAGE ALERTS

Ideal for Lockout/Tagout  
Indicating Zero Energy



## DIVERSIFIED ELECTRONICS



The UPA Voltage Alert reduces the risk of electrical arc flash by pre-verifying the electrical isolation from outside of an electrical panel. Hard wired to the circuit breaker or main disconnect, the UPA LED's flash or illuminate (depending on model) to indicate the presence of hazardous conditions, 40-600 VAC & 30-1000 VDC, associated with stored energy.

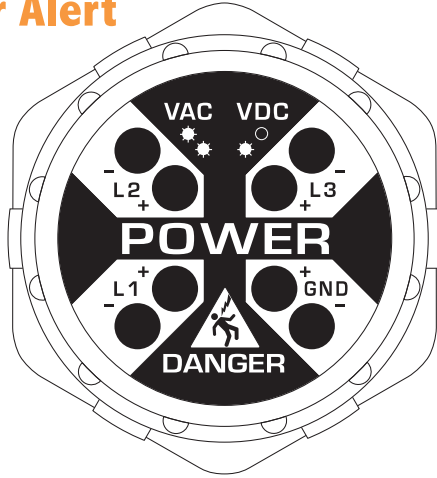
Engineered with fully encapsulated redundant circuitry, the Voltage Alert is powered by the same voltage that it indicates.

Available in 3 configurations, the easy to install UPAs fit through standard push-button and conduit knockouts.

## UPA-100 Series

### Universal Power Alert

- Detects Single or 3-Phase AC & DC Voltage or Stored Energy
- Redundant Circuitry
- Verification of Zero Energy in a Panel
- Fits 1-1/4" Conduit Knock-Out



The **UPA-100 Power Alert** reduces the risk of **electrical arc flash** by pre-verifying the electrical isolation from outside of a control panel. Hard wired to the circuit breaker or main disconnect, the UPA flashes whenever voltage is present. Engineered with **redundant circuitry**, the Power Alert is powered by the same voltage that it indicates.

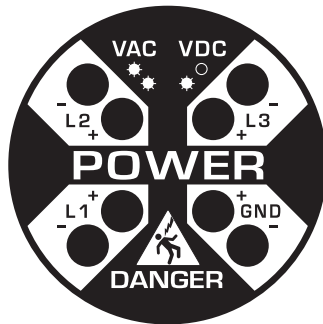
**OPERATIONS** The eight detector UPA-100 visually alerts to the presence of dangerous AC or DC (Stored Energy) potentials occurring between any combination of the four monitored input lines (L1, L2, L3, GND). Two LED indicators are assigned to each input line and are designated "+" and "-". For each input line carrying an AC potential (bi-polar), both the "+" and "-" LEDs will be active. A DC or Stored Energy potential will illuminate the "+" LED for the positive line and the "-" LED for the negative line.



## UPA-130 Series

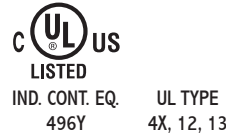
### 30mm Universal Power Alert

- Verification of Stored Energy Inside A Panel
- Fits 30mm Knockout
- Redundant Circuitry
- 40-750 VAC, 30-1000 VDC



The **UPA-130 Power Alert** reduces the risk of **electrical arc flash** by pre-verifying the electrical isolation from outside of a control panel. Hard wired to the circuit breaker or main disconnect, the UPA flashes whenever voltage is present. Engineered with redundant circuitry, the Power Alert is powered by the same voltage that it indicates.

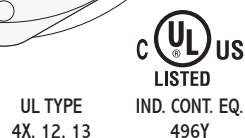
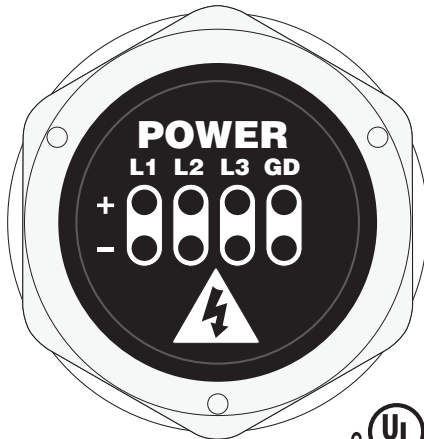
**OPERATIONS** The eight detector UPA-130 visually alerts to the presence of dangerous AC or DC (Stored Energy) potentials occurring between any combination of the four monitored input lines (L1, L2, L3, GND). Two LED indicators are assigned to each input line and are designated "+" and "-". For each input line carrying an AC potential (bi-polar), both the "+" and "-" LEDs will be active. A DC or Stored Energy potential will illuminate the "+" LED for the positive line and the "-" LED for the negative line.



## UPA-200

### Universal Power Alert Zero Energy

- Ideal for use in Lockout/Tagout Procedure
- Enhances NFPA 70E & OSHA Compliance
- Reduces Arc Flash & Electrocutation Risk
- Detects Stored Energy
- Detects Ground Fault Problems
- No Voltage Present on Enclosure Door Panels
- DIN Rail or Surface Mounted Base



The **UPA-200 Power Alert** reduces the **risk of electrical arc flash** by pre-verifying the electrical isolation from outside of an electrical panel. Hard wired to the circuit breaker or main disconnect, the UPA LED's flash to indicate the presence of hazardous conditions (20-600 VAC & 20-1000 VDC) associated with stored energy. Engineered with redundant circuitry, the power alert is powered by the same voltage that it indicates. The unit is easily installed into the panels through a standard push-button 30mm knockouts.

**OPERATIONS** The UPA-200 is ideal for mounting on the front controller door panel. The use of fiber-optics on this unit to transmit the LED lights to the enclosure door allows the unit to be mounted on an ungrounded door panel due to no voltage present on panel.

The eight detector UPA-200 visually alerts to the presence of dangerous AC or DC (Stored Energy) potentials occurring between any combination of the four monitored input lines (L1, L2, L3, GND). Two LED indicators are assigned to each input line are designate "+" and "-". For each input line carrying an AC potential (bi-polar), both the "+" and "-" LEDs will be active. A DC or Stored Energy potential will illuminate the "+" LED for the positive line and the "-" LED for the negative line.

**INDICATOR FLASH RATES (L1, L2, L3, GND)**

3- Phase Line-To-Line (VAC)	<29	30	120	240	480	600	750
Flashes/Sec (Typical)	0	1.3	4.2	5.8	7.3	8.0	8.8
DC or Stored Energy (VDC)	<27	30	48	110	300	600	1000
Flashes/Sec (Typical)	0	1.6	2.5	4.5	6.9	8.8	9.1

**GND DETECTOR THRESHOLDS (LEAKAGE ANY PHASE-TO-GROUND)**

3- Phase Line-To-Line (VAC)	30	120	240	480	750
L1, L2, or L3 To Ground Continuity (OHMS)	2M	2M	3M	5M	7M
Detector Included Fault Current (µA)	7	26	38	60	67

**DETECTOR INCLUDED FAULT CURRENT (PHASE-TO-GROUND SHORT)**

3- Phase Line-To-Line (VAC)	30	120	240	480	750
0 OHM Phase-To-Ground Current (µA)	28	108	219	455	730

**UPA-100 Series****Universal Power Alert****SPECIFICATIONS OPERATIONAL RANGE**

AC SINGLE  
40 to 600 VAC,  
50/60/400 Hz, or  
3-Phase (LINE-TO-  
LINE or LINE-TO-  
GND)

DC OR STORED  
ENERGY  
30 to 1000 VDC,  
(LINE-TO-LINE or  
INE-TO-GND)

**MAXIMUM RATED VOLTAGE**

750 VAC/1000 VDC  
(LINE-TO-LINE or  
LINE-TO-GND)

**DETECTION THRESHOLDS**

29 VAC 3-Phase,  
40 VAC SINGLE-  
Phase, 27 VDC  
(TYP Cutoff)

**POWER CONSUMPTION**

1.2 Watts @  
750 VAC  
(Approximately)

**TEMPERATURE RATING**

Operate:  
-4° to 131°F  
(-20° to +55°C)

Storage:  
-40° to 185°F  
(-40° to +85°C)

**ENCLOSURE**

NEMA 4X 105°C  
PVC, Totally  
Encapsulated for  
Environment  
Protection

**TERMINATIONS**

(4) 8 ft, 18 AWG  
1000V, UL-1452

**INDICATOR FLASH RATES (L1, L2, L3, GND)**

3- Phase Line-To-Line (VAC)	<29	30	120	240	480	600	750
Flashes/Sec (Typical)	0	1.3	4.2	5.8	7.3	8.0	8.8
DC or Stored Energy (VDC)	<27	30	48	110	300	600	1000
Flashes/Sec (Typical)	0	1.6	2.5	4.5	6.9	8.8	9.1

**GND DETECTOR THRESHOLDS (LEAKAGE ANY PHASE-TO-GROUND)**

3- Phase Line-To-Line (VAC)	30	120	240	480	750
L1, L2, or L3 To Ground Continuity (OHMS)	2M	2M	3M	5M	7M
Detector Included Fault Current (µA)	7	26	38	60	67

**DETECTOR INCLUDED FAULT CURRENT (PHASE-TO-GROUND SHORT)**

3- Phase Line-To-Line (VAC)	30	120	240	480	750
0 OHM Phase-To-Ground Current (µA)	28	108	219	455	730

**UPA-130 Series****30mm Universal Power Alert****SPECIFICATIONS OPERATIONAL RANGE**

AC SINGLE OR  
3-PHASE  
40 to 600 VAC,  
50/60/400 Hz,  
(LINE-TO-LINE or  
LINE-TO-GND)

DC OR STORED  
ENERGY  
30 to 1000 VDC,  
(LINE-TO-LINE or  
LINE-TO-GND)

**MAXIMUM RATED VOLTAGE**

750 VAC/1000 VDC  
(LINE-TO-LINE or  
LINE-TO-GND)

**DETECTION THRESHOLDS**

29 VAC 3-Phase,  
40 VAC SINGLE-  
Phase, 27 VDC  
(TYP CUTOFF)

**POWER CONSUMPTION**

1.2 Watts @  
750 VAC  
(Approximately)

**TEMPERATURE RATING**

Operate  
-4° to 131°F  
(-20° to +55°C)

Storage  
-40° to 185°F  
(-40° to +85°C)

**ENCLOSURE**

Totally  
Encapsulated for  
Environment  
Protection

**TERMINATIONS**

(4) 8 ft, 18 AWG  
1000V, UL-1452

RED: L1

YEL: L2

BLU: L3

GRN/YEL: GRD

**INDICATOR FLASH RATES (L1, L2, L3, GND)**

3- Phase Line-To-Line (VAC)	<14	20	120	240	480	600	750
Flashes/Sec (Typical)	0	0.9	2.6	3.3	3.7	3.8	3.9
DC or Stored Energy (VDC)	<15	20	48	110	300	600	1000
Flashes/Sec (Typical)	0	0.9	1.9	3.2	3.7	4.0	4.0

*Epileptic Photosensitivity Compliance: Below 5-30 Flashes/Sec*

**GND DETECTOR THRESHOLDS (LEAKAGE ANY PHASE-TO-GROUND)**

3- Phase Line-To-Line (VAC)	20	120	240	480	750
L1, L2, or L3 To Ground Continuity (OHMS)	2M	5M	7.5M	13M	20M
Detector Included Fault Current (µA)	4	12	17	20	21

**DETECTOR INCLUDED FAULT CURRENT (PHASE-TO-GROUND SHORT)**

3- Phase Line-To-Line (VAC)	20	120	240	480	750
0 OHM Phase-To-Ground Current (µA)	15	105	216	435	684

**UPA-200****Universal Power Alert Zero Energy****SPECIFICATIONS OPERATIONAL RANGE**

AC 20-600  
VAC/20-1000 VDC

**MAXIMUM RATED VOLTAGE**

750 VAC/1000 VDC  
(LINE-TO-LINE)

**DETECTION THRESHOLDS**

14 VAC 3-Phase/  
18.5 VAC SINGLE-  
Phase, 15 VDC  
Stored Energy

**POWER CONSUMPTION**

1.2 Watts @  
750 VAC

**TEMPERATURE RATING**

-4° to 131°F  
(-20° to +55°C)

**ENCLOSURE**

Totally  
Encapsulated

**TERMINATIONS**

(4) 6 ft, 18 AWG  
1000V, UL-1452



**OSHA 1910.147 THE CONTROL OF HAZARDOUS ENERGY (LOCKOUT/TAGOUT)**

*Following the application of lockout or tagout devices to energy isolating devices, all potentially hazardous stored or residual energy shall be relieved, disconnected, restrained, and otherwise rendered safe. (d)(5)(ii)*

*If there is a possibility of reaccumulation of stored energy to a hazardous level, verification of isolation shall be continued until the servicing or maintenance is completed, or until the possibility of such accumulation no longer exists. (d)(6)*

*“Verification of Isolation.” Prior to starting work on machines or equipment that have been locked out or tagged out, the authorized employee shall verify that isolation and de-energization of the machine or equipment have been accomplished.*

**ORDERING INFORMATION**

MODEL NUMBER	DESCRIPTION
UPA-100	Universal Power Alert
UPA-100S	Universal Power Alert Solid-ON Red
Accessories	
UPA-WP100	ANSI Warning Plate

MODEL NUMBER	DESCRIPTION
UPA-130	30mm Universal Power Alert
UPA-130-DIV 2	Class I, Div 2
UPA-130S	Solid ON
UPA-130-GOV	Amber LED
Accessories	
UPA-WP130	ANSI Warning Plate
UPA-BZL-130	Flush Mounting Kit for 1-1/4" for UPA 130 Conduit Knockout
UPA-BZL-DIV2	Bezel Kit for UPA-130 Div 2
UPA-BZL-GOV	Bezel Kit for UPA-130 Gov
UPA-BZL-130S	Bezel Kit for UPA-130S

MODEL NUMBER	DESCRIPTION
UPA-200-12	30mm Universal Power Fiber Optic Alert 12" Fiber Optic
UPA-200-24	24" Fiber Optic
UPA-200-48	48" Fiber Optic
Accessories	
UPA-WP130	ANSI Warning Plate

**AUTOMATICTIMING.COM**  
800.727.5646

**ATCDIVERSIFIED.COM**  
304.387.1200

**ATCDIGITEC.COM**  
FAC: 304.387.1212

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