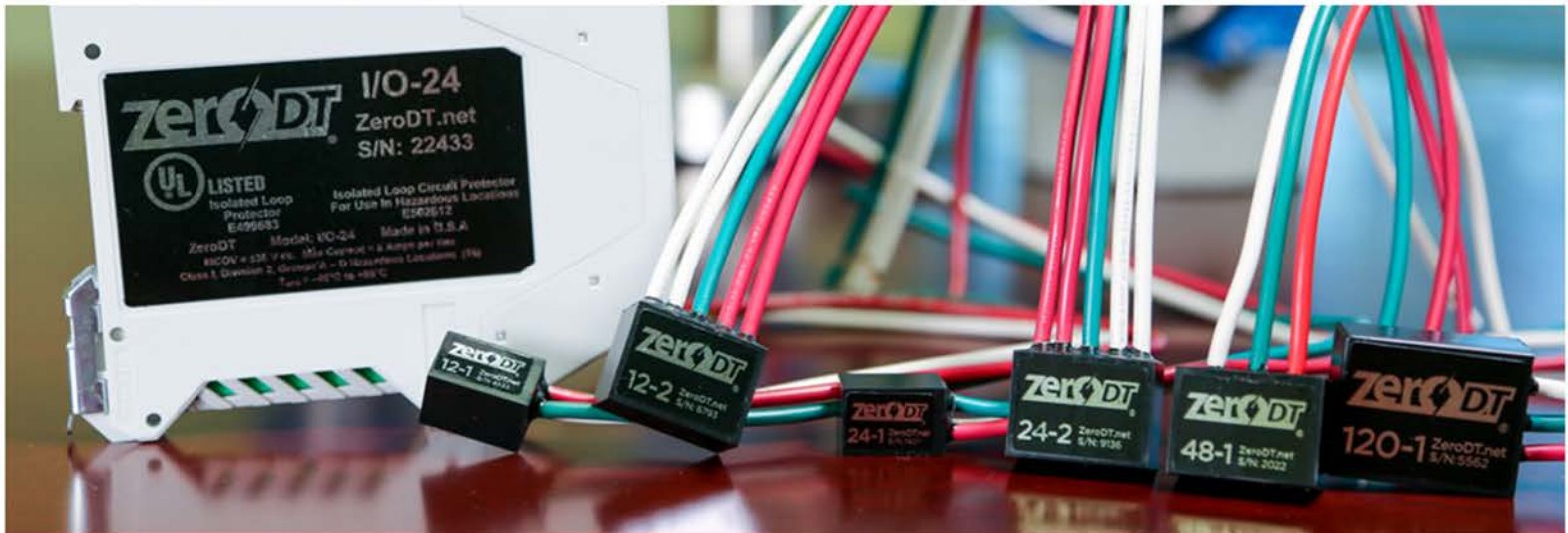




The World's Fastest and Most Reliable Industrial Surge Protection

zerodt.net



The ZeroDT family provides passive transient surge protection for communication loops and power applications. Applications include both discrete and process automation instrumentation.



Utilizing advanced Silicon Avalanche Suppression Diode (SASD) semi-conductor technology, the ZeroDT family was designed for measurement and process automation applications. These products are suitable for protection against over-voltage transient surges for 4-20 mA, RS-232 (4-wire), RS-485 (2-wire), and 12 VDC to 120 VAC power applications. The units contain independent surge protectors for each line (2 to 4 depending on the individual unit), allowing them to be configured for an optimized solution for any combination of measurement and automation applications.






Non-degrading protection technology (even with repeated use) along with unsurpassed response time make the ZeroDT units optimum protection solutions. All models are UL listed devices for protection in both ordinary locations as well hazardous (Class 1, Div 2) locations. The ZeroDT units will provide transient suppression for the protection of analog or digital transmitters, flow measurement devices gas detection sensors and systems, level equipment, as well as any other field instrumentation and process automation.

Contact
832-532-7522
Sales@ZeroDT.net



Get Protected. Stay Protected.

KEY FEATURES

-  Non-degrading SASD technology
-  Suitable for multiple communications and power applications.
-  Less than 5 nanosecond response time
-  Repeatable voltage clamping levels
-  Small form factor allows mounting inside the transmitter enclosure for optimum protection

ZERODT FAMILY CHARACTERISTICS

All Products

Response Time
< 5 nanoseconds

Nominal Surge Current:
withstands repeated applications of the levels shown

Operating/Storage Temp
-40°C to +80°C
-40°C to +65°C for I/O-24

Humidity
0-95% non-condensing

RoHS Compliant

Wire Leads:
#16 awg, fine stranded copper 12 in long to allow cutting to length

Certifications:
UL Listed -- Isolated Loop Circuit Protector (E499683)
UL Listed -- Isolated Loop Circuit Protector for use in Hazardous Locations (E502612)
Class 1, Division 2, Groups A-D Hazardous Locations

12-1

- Protects 2 wires or 1 loop
- Nominal voltage: 12V
- Max Cont. Operating Voltage: 18 V dc
- 8/20 μ s, Line-to-Ground: >600 Amps
- 10/1000 μ s, Line-to-Ground: >65 Amps
- 12.4 mm H, 12.4 mm W, 18.9 mm D
- 1 Green Wire: Ground
- 1 Red Wire: Positive/Negative,
- 1 White Wire: Positive/Negative

24-2

- Protects 4 wires or 2 loops
- Nominal voltage: 24V
- Max Cont. Operating Voltage: 36 V dc
- 8/20 μ s, Line-to-Ground: >600 Amps
- 10/1000 μ s, Line-to-Ground: >65 Amps
- 18.7 mm H, 25.1 mm W, 12.7 mm D
- 1 Green Wire: Ground
- 2 Red Wires: Positive/Negative,
- 2 White Wires: Positive/Negative

12-2

- Protects 4 wires or 2 loops
- Nominal voltage: 12V
- Max Cont. Operating Voltage: 18 V dc
- 8/20 μ s, Line-to-Ground: >600 Amps
- 10/1000 μ s, Line-to-Ground: >65 Amps
- 18.7 mm H, 25.1 mm W, 12.7 mm D
- 1 Green Wire: Ground
- 2 Red Wires: Positive/Negative,
- 2 White Wires: Positive/Negative

48-1

- Protects 2 wires or 1 loop
- Nominal voltage: 48V
- Max Cont. Operating Voltage: 65 V dc
- 8/20 μ s, Line-to-Ground: >600 Amps
- 10/1000 μ s, Line-to-Ground: >65 Amps
- 18.7 mm H, 25.1 mm W, 12.7 mm D
- 1 Green Wire: Ground
- 1 Red Wire: Positive/Negative,
- 1 White Wire: Positive/Negative

24-1

- Protects 2 wires or 1 loop
- Nominal voltage: 24V
- Max Cont. Operating Voltage: 36 V dc
- 8/20 μ s, Line-to-Ground: >600 Amps
- 10/1000 μ s, Line-to-Ground: >65 Amps
- 12.4 mm H, 12.4 mm W, 18.9 mm D
- 1 Green Wire: Ground
- 1 Red Wire: Positive/Negative,
- 1 White Wire: Positive/Negative

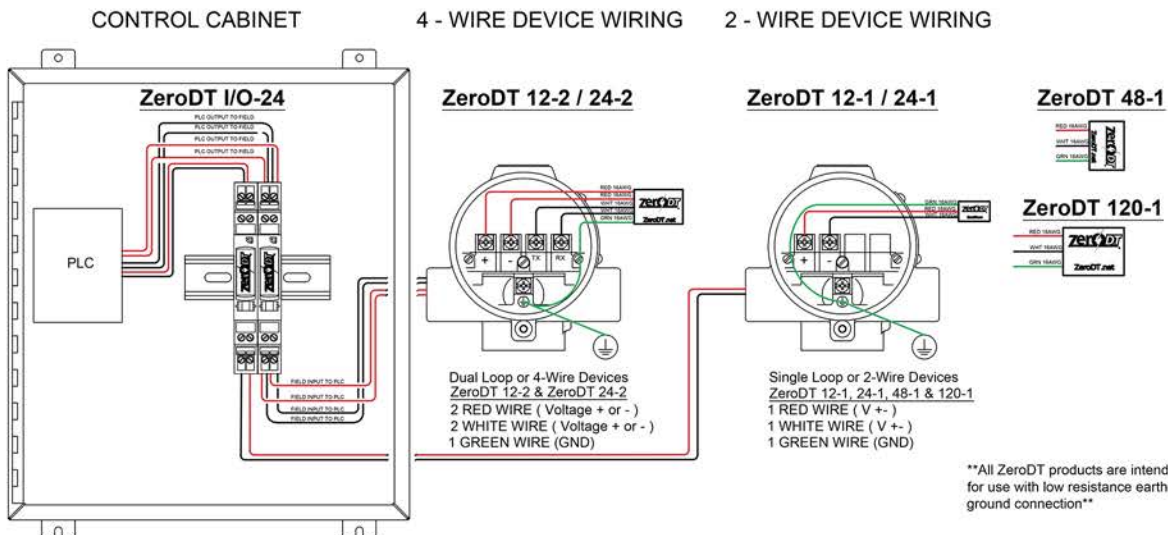
120-1

- Protects 2 wires or 1 loop
- Nominal voltage: 120V AC
- Max Cont. Operating Voltage: 138 VAC or 195 V dc
- 8/20 μ s, Line-to-Ground: >600 Amps
- 10/1000 μ s, Line-to-Ground: >65 Amps
- 12.7 mm H, 25.1 mm W, 32.1 mm D
- 1 Green Wire: Ground
- 1 Red Wire: Positive/Negative,
- 1 White Wire: Positive/Negative

I/O-24

- DIN rail mount - protects 4 wires or 2 loops
- Nominal voltage: 24V
- Max Cont. Operating Voltage: 36 V dc
- 8/20 μ s, Line-to-Ground: >1200 Amps
- 10/1000 μ s, Line-to-Ground: >130 Amps
- 100 mm H, 12.5 mm W, 100 mm D
- Mounts to Grounded DIN Rail
- Compression lugs accept #26 to #14 AWG conductors

ZERODT INSTALLATION DIAGRAM



Get Protected. Stay Protected.

Houston, TX

832-532-7522

Sales@ZeroDT.net

www.ZeroDT.net



ZeroDT products
are proudly
made in the USA.