

COMPASS^{LV}

PERSONAL VOLTAGE & CURRENT DETECTOR

PRIMARY FUNCTIONS

- Identify live conductors & circuits.
- Detect residual or induced voltage.
- Identify energized lines after power outages.
- Detect energized threats after accidents and disasters.
- Find energized lines underground or behind non-ferrous material.



DEVICE SPECIFICATIONS

Size	3.5"x1.2"x.04" (88.9 mm x 30.48 mm x 10.16 mm)-Body. Wt: 0.5 oz (14.2 g)
Power System	Rechargeable Lithium-Polymer (LiPo) Battery (3.7V, 250mAh). Discharge rate varies depending on number of alerts, full charge can last 10+ days (80+ hrs)
Charging	Typically charges to 100% in 1.5 hrs on a USB 2.0 Micro B (5V) charger.
Directional Accuracy	Point source: Approximately $\pm 20^\circ$
Detection Sensitivity	Seven sensitivity levels + Smart Adaptive mode (see page 7)
Operating Frequency	50 Hz and 60 Hz options are available
Operating Conditions	-20°C to 60°C (-4°F to 140°F): DO NOT charge Compass if <0°C (32°F) RH: Max. 90% Non-Condensing @25°C,
Water Resistance	Rated IP-67
Detection Voltage Ranges	Low Voltage Model: 120 VAC – 2400VAC RMS Line to Neutral *Detection distances vary depending on conditions, settings, and model.
Case Ratings (Polycarbonate)	Flame Retardant: UL recognition 94V-0 at 1.5 mm Electric Strength (IEC 60243-1): 35kV/mm Electric Volume Resistivity (IEC 60093): 1.0E+14 ohms*m
Certifications	CE (ROHS, WEEE, 2006/66/EU Battery Directive)
Standards	-EMC: EN 61326-1:2013 Class B, CISPR 11:2015+A1:2016 Emissions and Immunity for Measurement Equipment -Safety: EN 61010-1: Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use. -IEC TR 61243-6 (Type I) Guidelines on non-contact voltage detectors (NCVD) for use at nominal voltages above 1kV AC -ANSI/ISEA Z89.1-2014 Class E Hard Hat, Full Brim, Type I; Tested Accessory -Voltage Detectors: ASTM F3283 / F3283M –18; Standard Specification for the Manufacturing of High-Voltage Proximity Alarm to be used for the Detection of Overhead High Voltage Alternating Current (AC)