

# COMPASS<sup>LV</sup>

## 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

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