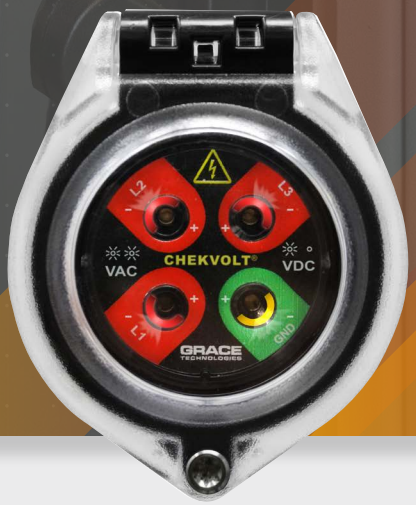
How GracePESDs® Comply with NFPA 70E for Absence of Voltage Testing



WHAT ARE PERMANENT ELECTRICAL SAFETY DEVICES?

Permanent Electrical Safety Devices (PESDs) provide a safer and more productive means of performing Mechanical or Electrical Lockout/Tagout (LOTO). GracePESDs®, such as the ChekVolt®, combine a voltage presence LED indicator with high-impedance protected test points for Absence of Voltage Testing.

IS THE SAFE-TEST POINT™ COMPLIANT TO NFPA 70E FOR ABSENCE OF VOLTAGE TESTING?

Yes, other than testing at the source, there are two product categories recognized by NFPA 70E that are suitable for a safer means of performing an Absence of Voltage Test:

- The ChekVolt® and Safe-Test Point™ are Permanently Mounted Accessories listed to UL 61010 that meet NFPA 70E Article 120.6 (7) when used with an adequately rated portable test instrument.
- Push-Button Absence of Voltage Testers (AVTs) are Permanently Mounted Testers listed to UL 1436 that meet NFPA 70E Article 120.6 (7) Exception No. 1.
- "Section 120.6 (7) does not prohibit the use of the proposed devices to extend test points when used with portable test instruments, and therefore no exception is needed." — *NFPA 70E Technical Committee* *(Source: Public Input No. 367-NFPA 70E-2021, Committee EEW-AAA).*

> Either category is **acceptable** for **Absence of Voltage Testing per NFPA 70E.** In fact, **installing high-impedance protected test points** for voltage measurement through door is a **Safety-by-Design method** that has proven to be effective in **reducing risk** associated with an **arc flash or electrical shock hazard** per NFPA 70E 2024 Appendix O 2.4 (13).

Are the ChekVolt® and Safe-Test Point™ NFPA 70E compliant? **Yes!**

Do they meet Exception 1? **No.** Do they need to? **No.**

HOW DOES A PERMANENTLY MOUNTED ACCESSORY WORK?

Our ChekVolt® and Safe-Test Point™ are designed to work hand-in-hand with a qualified electrical worker's trusted portable test instrument such as a multimeter.

POINT OF WORK MISREPRESENATIONS

In the 2024 NPFA 70E, "at each point of work" was added to Step 7 in the 120.6 listing of steps that shall be performed to establish and verify an electrically safe work condition. This addition has led to some confusion by end users, and misrepresentation by some vendors, as the term 'point of work' is not defined in NFPA 70E 2024 nor by OSHA. An interpretation letter from OSHA suggests that electrical panels could be considered as the point of work.

The truth is that both GracePESDs® and AVTs are connected by wires to an electrical energy source(s). UL 61010 approved GracePESDs® enable a live-dead-live test using an adequately rated portable test instrument following NFPA 70E 120.6. A leading AVT product uses a continuity check to verify a connection but relies on the proper grounding and installation of the sensors to the electrical energy source. In fact, using a GracePESD® with an adequately rated portable test instrument provides actual voltage readings skilled electricians can use to confirm the connection to the correct electrical energy source.

> There is nothing in the changes to **NFPA 70E 2024** that prevents the use of the **GracePESDs®** that have been used to keep tens of thousands of **workers safe** from **arc flash and electric shock hazards for decades**.

NFPA 70E Article 120.6(7) 2024 Edition	Permanently Mounted Accessory GracePESDs® ChekVolt® and Safe-Test Point™	Permanently Mounted Testers: AVTs
Absence of Voltage Test can be performed in compliance with NFPA 70E 2024 Article 120.6 (7)	Yes, when used with an adequately rated portable test instrument	Only via Exception No. 1
Tests at the Point-of-Work per NFPA 70E 2024 120.6 (7)	Yes, if installed at the point in the circuit where you would normally test for voltage. Verified with Live-Dead-Live test using a adequately rated portable test instrument. Install multiple GracePESDs® if there are other sources of power.	Yes, if installed at the point in the circuit where you would normally test for voltage. Only circuit continuity is verified, not whether the AVT was installed at the point-of-work.
Susceptible to EMI interference from drives and other sources	The fully analog circuit is not impacted by EMI	Digital circuitry is susceptible to EMI and may not be suitable for use
Requires DIN rail space for electronics	No	Yes

LEARN MORE

For a more information, please scan or click the qr code to the right to view our article *Understanding Point of Work in NFPA 70E: How Permanent Absence of Voltage Test Points Ensure Compliance and Safety* featured in Occupational Health & Safety Magazine (OH&S).