

Panduit VeriSafe Absence of Voltage Tester Guide Specification
v.092617

xx.x Product Specifications

xx.x.1 Absence of Voltage Tester

ABSENCE OF VOLTAGE TESTER (AVT) is a permanently-mounted test device that is used to verify that a circuit is de-energized prior to opening an electrical enclosure that contains energized electrical conductors and circuit parts. An AVT is provided with a test circuit with active indications to verify the absence of phase-to-phase voltage and phase-to-ground voltage. AVTs are provided with a test circuit and visual indicators to confirm that the tester is functioning properly before and after the process of determining that voltage is absent.

xx.x.2 Absence of Voltage Tester Specifications

The Absence of Voltage Tester (AVT) shall be listed to UL 1436 for the purpose of verifying the absence of voltage. The safety functions of the AVT shall comply with IEC 61508-1, SIL 3.

The AVT shall be designed to operate on AC systems, both 3 phase and single phase. It shall detect voltages ranging from 3V to 600V, both AC and DC. It shall test each phase conductor or circuit part phase-to-phase and phase-to-ground for absence of voltage.

The AVT shall be permanently mounted and are connected directly to the phase conductors or circuit parts to be tested. Shall be installed in accordance with manufacturer's instructions and test the conductors and circuit parts at the point of work.

The absence of voltage tester shall consist of a user interface that provides a means to activate the test and provide test feedback.

The AVT shall provide three red indicators to indicate presence of energy, one for each phase. It shall also provide a green visual indicator to confirm the absence of voltage after the absence of voltage test, in accordance with UL 1436.

The AVT shall include a set of redundant dry contact signal outputs for optional use with control systems. The outputs shall be normally open, and close only when the green Absence of Voltage Indicator is illuminated.

The AVT shall incorporate a built-in test circuit to verify operation on a known voltage source before and after the absence of voltage test.

The AVT shall incorporate a built-in test circuit to verify installation of hardwired sensor leads before and after the absence of voltage test.

xx.x.3 Product Selection

Manufacturer: Panduit Corporation, 18900 Panduit Drive, Tinley Park, IL 60487
Type: VeriSafe Absence of Voltage Tester

Part/Model No: VS-AVT-xxx where “xxx” are combination of letters and numbers corresponding to individual configurations

No substitution allowed without written approval from the owner. All other manufacturers must submit substitution request in accordance with Substitution Procedures.