



Absence of Voltage Tester

Simple Push Test for reliable electrical safety.

Nukleus Absence of Voltage Tester (AVT), powered by a long-life 3.6V battery, verifies both the presence and absence of voltage through a simple push-to-test button, eliminating manual tester dependency and reducing the level and category of personal protective equipment (PPE) required. AVT helps task-qualified and qualified electrical personnel to meet NFPA 70E Article 120.6 (3), (4), & (7) while performing mechanical and electrical LOTO procedures. Engineered for demanding environments, the AVT uses dual leads for source connections to enhance functional safety integrity. High-visibility LEDs provide clear status of Voltage presence indication with solid-ON **RED** LEDs, absence of voltage indication with **GREEN** LED, and unsafe, hardware-fault conditions with **AMBER** LED. Additionally, smaller **RED** LEDs indicate disconnected leads for faster troubleshooting.



Operational Efficiency

- Simple Push Button— enables repeatable absence-of-voltage tests.
- 3.6V battery system— supports extended useable life.
- Eliminates manual tester dependency and lowers the required PPE category level.

Functional Reliability

- High-Voltage Compatibility — Reliable operation up to 1000V AC, supporting 3-phase (4-wire & 5-wire) systems.
- Dual source leads — redundancy enhances functional safety.
- Disconnected Lead Detection — ensures faster troubleshooting.

Compliance & Safety Assurance

- Globally Certified — meets UL, CSA, IEC, SIL, and BIS safety standards.
- CAT III / CAT IV Rated —Ensures operation in transient surges up to 8kV.
- Closed-Door Voltage Verification — enables safe testing without exposure.

Designed for Simplified Excellence

- 14 AWG Leads (8 ft long) — Supports wiring up to 100A busbars.
- High-Intensity LEDs — provide reliable visibility in bright daylight or low-light environments.
- 30 mm knockout punch, epoxy-potted housing — easy retrofit installs and protection from moisture, and contaminants.



Certifications Pending

www.nukleustek.com

Technical specifications ⚡

Specification	Details
Electrical System	For use in 3-phase AC systems
Voltage Detection Range	Up to 1000 VAC (50/60/400 Hz)
Absence of Voltage Threshold	Less than 3 Volts AC
Overvoltage Category	III (1000 V), IV (600 V)
Operating Temperature	-25°C to 55°C
Storage Temperature	-45°C to 80°C
Humidity	5 to 90% non-condensing; Rated 80% at 40°C (104°F), decreasing linearly to 50% at 60°C (140°F)
Altitude	Up to 2000 meters (6600 feet)
Pollution Degree	2
Terminations	5-Wire: (10) Wires, 8 ft, 14 AWG, 90°C @ 1000V, UL-1032, PVC Insulated w/ Nylon Jacket
	4-Wire: (8) Wires, 8 ft, 14 AWG, 90°C @ 1000V, UL-1032, PVC Insulated w/ Nylon Jacket
Degree of Protection	Indicator Module: for flat surface mounting in a TYPE (UL, NEMA and CSA) 1, 12, 13, 4, 4X, IP66, IP67 or IP69 enclosure.
	Isolation Module: IP20
Dimensions	Indicator Module - 53.50mm x 97.85mm (HØ x D), 30mm Ø mounting hole
	Isolation Module - 127.33mm x 109.05mm x 38mm- (H x W x D)
Battery	Industrial 3 .6 V Lithium-ion

DISCLAIMER: Specifications and data are subject to change with or without notice.