AMPROBE®
HARD AT WORK SINCE 1948.

www.Amprobe.com

TIC 300 PRO
Non-Contact High Voltage Detector

MSHA certified and intrinsically safe, trusted by utility crews for over 20 years

The Amprobe TIC 300 PRO high voltage detector is a non-contact voltage detector for detecting alternating current (AC) on transmission lines, power distribution equipment, downed power lines, fuses, electrical outlets, and other power lines. It detects voltages in low, medium and high voltage applications (30-122kVAC) with bright visual and loud alerts. It is rugged and reliable for utility, industrial, heavy manufacturing and mine safety applications. The TIC tracers get thrown around in utility trucks, but the units are built to withstand the rough treatment.

The TIC 300 PRO has a low-voltage setting (30 to 1,500VAC) for checking voltage presence in breaker panels, breakers, power outlets and wiring. It also has a high-voltage setting (1,500 to 122,000 V AC when used with the TIC 410A Hot Stick attachment) for checking transmission lines, downed power lines and substations. The presence of AC voltage is indicated by an LED light and audible beeper. It is MSHA certified and intrinsically safe. The TIC 300 PRO has a self-test that verifies the tester works properly and is drop-proof up to 6 feet.

TIC 300 PRO Features

- **MSHA certified and intrinsically safe**
- **Utility tool** for checking transmission lines, power distribution equipment, down power lines, fuses, and load break connectors
- **Visual and audible voltage indication**
- **High-voltage setting 1500 V ac to 122,000 V AC** (with TIC 410A Hot Stick) for utility applications such as transmissions lines, power distribution equipment, down power lines, transformers and more.
- **Low-voltage setting** for checking voltage presence in breaker panels, breakers, power outlets and wiring
- **A unique self-test feature** so there is no need to connect directly to a current carrying conductor – saving your time and keeping you safe.
- **Ergonomic design** with a convenient handle
- **Drop proof up to 6 feet**

TIC 300 PRO
High Voltage
Tester

United States Department of Labor
MSHA
Mine Safety and Health Administration

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Detailed Specifications

Specifications	TIC 300 PRO
Operating Voltage	LOW Range: 30 to 1500 VAC HIGH Range: 1500 VAC to 122 kV AC *Use only with Amprobe optional accessory hot stick and proper safety equipment for voltages up to 122 kV AC
Operating Temperature	0°C to +52°C (32°F to +125°F);RH < 90% RH
Storage Temperature	0°C to +52°C (32°F to +125°F) battery removed.
Environment	< 2000m,outdoor operation
Power	9 volt alkaline battery
Power Consumption	OFF: 340uA Low / High Detection mode: 39 mA
Duty Cycle	Continuous
Response Time	Instantaneous
Dimensions	345(L) x 75(W) x 47(H)mm (13.5 x 3.0 x 1.8 in)
Weight	243g (0.5 lb.)
Supplied with	User manual, battery and carrying case

Range	
Non-Contact Voltage Detection	30-1500 VAC 1500- 122,000 VAC (with Hot Stick TIC 410A)
Typical	Sensitivity

Self-Test Verification				
Line voltage (kV)	**Phase to ground**		**Phase to phase**	
phase to phase	**(ft-in)**	**(m)**	**(ft-in)**	**(m)**
0.03 to 1.0	note 1	note 1	note 1	note 1
1.1 to 15.0	2-1	0.64	2-2	0.66
15.1 to 36.0	2-4	0.72	2-7	0.77
36.1 to 46.0	2-7	0.77	2-10	0.85
46.1 to 72.5	3-0	0.90	3-6	1.05
72.6 to 121	3-2	0.95	4-3	1.29

Low Voltage		High Voltage	
Voltage (Phase to neutral with 890k Ohm load)	Detection Range (From the tip of the probe to the target line) Average	Voltage (Phase with no load)	Detection Range (From the tip of the probe to the target line) Average
30 V	1.5”	1.5 kV	0.5”
75 V	6.5”	2.0 kV	1”
100 V	8.5”	4.0 kV	2”
120 V	10”	10.0 kV	8”
220 V	1’1”	15.0 kV	1’2”
500 V	1’7”	20.0 kV	1’8”
1000 V	2’10”	25.0 kV	2’2”

For complete specifications please download the user manual on www.Amprobe.com.

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All Amprobe tools, including the Amprobe TIC 300 PRO, are rigorously tested for safety, accuracy, reliability, and ruggedness in our state-of-the-art test lab. In addition, Amprobe products that measure electricity are listed by a 3rd party safety lab, either UL or CSA. This system assures that Amprobe products meet or exceed safety regulations and will perform in a tough, professional environment for many years to come.