

技术咨询和询价:010-68940148

Detex®

Voltage Detectors and Phasing Testers



- Voltage Detectors
 - Seven models
 - Continuous monitoring
 - IEC conformance
- Phasing Testers
 - Two models
 - Grounded or ungrounded ac system check

康高特-MEGGER-DETEX电压检测仪和相序测试仪 DESCRIPTION

For use on any grounded electrical system, DETEX Voltage Detectors are available in seven models that cover a range from distribution class to transmission line voltages up to 550 kV. Megger offers six electronic "beeper" models and one model with white LED indication for greater visibility when testing indoors.

The beeper-style electronic detectors provide audible and visual indication of the presence of phase-to-ground ac voltages, in accordance with ANSI C84.1-1982 standards.

The 6.9-kV model is equipped with a telescopic pole. All other models are fitted for universal spline mounting on a hot line pole rated for the voltage of the system being tested.

Electronic voltage detectors for use on distribution line voltages (Cat. No. 514360 series) provide three red LEDs.

Detectors rated for transmission line voltages (Cat. No. 514242 series) provide four LEDs for improved visibility at greater distances.

The white LED-indicating voltage detector is designed for indoor testing of grounded ac systems. A row of bright LED indicators provide easy visibility in poor lighting conditions. During testing, the presence of voltages within the detector's operating range will illuminate the bright LED bulbs.

A built-in piezo electric voltage source provides a test feature to ensure that the detector is operative before use. A pushbutton activates the self-test.

The detector is equipped with a 48-in. (1219-mm) telescopic pole calibrated and marked for voltages within the ratings of the detector. These demarcations assist the user in adjusting the pole to the length required for safe operation. The pole retracts to 34 in. (864 mm) for convenient storage in a vinyl carrying case when not in use.

康高特-MEGGER-DETEX电压检测仪和相序测试仪

APPLICATIONS

All DETEX models provide continuous monitoring with no on/off switch. They respond to minimum phase-to-ground voltages as outlined by ANSI C84.1 standards, with conformance to IEC guidelines for capacitive high-voltage test instruments.

Prior to testing, a self-test may be activated on the electronic detectors at the push of a button. The test simulates application of external voltage to the probe electrode, which verifies the operation of the buzzer and lights three red LEDs.

When the TEST button is released, a green LED indicates the detector is operative and ready for use. If voltages within the detector's operating range are present during testing, the green LED extinguishes, the red LEDs flash and the audio tone sounds until the detector is removed from the voltage source.

FEATURES AND BENEFITS

- Available in seven models covering a range from distribution class to transmission line voltages up to 550 kV.
- Six electronic, beeper-style models and one model with white LED indicators for ease of use.



PHASING TESTERS DESCRIPTION

DETEX Phasing Testers are available in two models for applications up to 34.5-kV class systems. These models have LED indication.

The phasing tester (Cat. No. 510900) is fitted with a universal spline mount for attachment to a standard hot stick. This tester provides a 10-ft (3-m) nominal spacing between two energized phases.

The Phasing Tester (Cat. No. 510836-1) provides bright LED indication for easy visibility indoors or where lighting conditions are poor. Approximate voltage ranges to be checked can be preset for additional assurance. The instrument consists of a pair of fixed-length, 43-in. (1092-mm) poles with hand guards. A flexible, insulated connecting cable is capable of covering a 7-ft (2.1-m) span between two energized phases under test.

APPLICATIONS

This two-pole phasing tester may be used on grounded and ungrounded ac systems to check high-voltage fuses, test for correct phase connections and test for the absence of high voltage on deenergized lines or apparatus.

FEATURES AND BENEFITS

- Used on grounded or ungrounded ac systems to check high-voltage fuses, test for correct phase connections and test for the absence of high voltage on de-energized lines or apparatus.
- Two models available for up to 34.5 kV class systems.

OPTIONAL ACCESSORIES

PIEZO VERIFIER

This essential safety tool is used to confirm the correct operation of voltage detectors and phasing testers that do not have a self-testing capability. When the verifier handle is depressed at the rate of 3 strokes per second, a piezo crystal generates approximately 1800 volts. This voltage, when applied to the tip of the detector, tests for integrity of the current path and proper operation of the indicators.

A high-voltage model provides selectable outputs of 10, 20, and 30 kV

A three-step procedure of testing the detector with the piezo verifier, using the detector to test for the absence of high voltage and then



procedures. Verifier can be used with single- and two-pole models.

Supplied with case and lead

Length: 7 in. (178 mm)
Weight: 0.75 lb (0.34 kg)

PNEUMATIC GLOVE TESTER

This rugged, molded air pump conveniently tests all types of rubber gloves with a cuff diameter of 5 in. (127 mm) or less. A built-in check valve retains pressure within the glove as long as desired. Tester is provided with two fabric-covered elastic sealing rings.

Length: 5.5 in. (140 mm)

Diameter: 5 in. (127 mm)

Weight: 1.5 lb (0.7 kg)





SPECIFICATIONS

Voltage Detectors

Cat. No.	Model	Operating Voltage Range	Mechanical Style	Min. Voltage (Phase to Ground)	Nominal System Voltage Range, 50/60 Hz (phase to phase)	Weight	
514360-5	Electronic, with red LED and audible indication	4 to 14.5 kV	Spline fitted for	2.3 kV	4.16 to 13.8 kV		
514360-6		11.7 to 36.2 kV	attachment to	6.8 kV	12 to 34.5 kV	1.1 lb (0.5 kg)	
514360-7		24.3 to 72.5 kV	a universal hot line pole	14 kV	24.94 to 69 kV		
514360-8		2.3 to 7.2 kV	48-in. telescopic pole	1.2 kV	2.4 to 6.9 kV	2.2 lb (1 kg)	
514242-1		67 to 235 kV	Spline fitted for	38 kV	69 to 230 kV		
514242-2		200 to 550 kV	attachment to a universal hot line pole	115 kV	230 to 500 kV	1.5 lb (0.67 kg)	
514440-2	White LED	3.6 to 36.5 kV	48-in. telescopic pole	2.1 kV	4.16 to 34.5 kV	2.1 lb (0.95 kg)	

Phasing Testers

Cat. No.	Model	Nominal System Voltage Range, 50/60 Hz (phase to phase)	kV Indicator Markings*	Mechanical Style	Pole Length	Cable Length	Weight, Instrument Only	Weight, With Plastic Case
510836-1		4.16 to 34.5 kV	0, 4.2, 7.2, 13, 25, 35	Two fixed length poles with hand guards	43 in. (1092 mm)	54 in. (1372 mm)	3 lb. (1.4 kg)	11.2 lb. (5.1 kg)
510900	LED	10 to 30 kV	None	Spline fitted for attachment to a universal hot line pole	35 in. (880 mm)	N/A	2.1 lb. (950 kg)	9.2 lb. (4.2 kg)

^{*}The kilovolt indication obtained from these testers should not be interpreted as an exact measurement of the voltage.

ORDERING INFORMATION						
Item (Qty)	Cat. No.	Item (Qty)	Cat. No.			
For Detex voltage detector and phase		Optional Accessories				
detector ordering information, refer to specification table on previous page.		Piezo verifier (generates 1800 V)	510005			
		Piezo verifier (generates 10, 20, 30 kV)	510006			
Included Accessories		Pneumatic glove tester	512117			
Carrying case for 514440-2	514440-C					
Carrying case for 514360-8	514360-C					
Carrying case for 514360-5, 514360-6 and 514360-7	514360-NDCASE					
Carrying case for 514242-1 and 514242-2	514242-C					
Carrying case for 510836-1	510836-1C					
Instruction manual	AVTM51Jd					

