

Ground Bond Test Probe

PE 81

When a device of Protection Class I is tested, at least one Protective Conductor Test is required. For many products, several points must be tested individually and consecutively, which makes the Protective Conductor Test the most complex type of test in safety testing technology. In practice, the tests, which are usually carried out manually, require a lot of time and therefore a high level of manpower. This is exactly where the development of SPS electronic came in. All Protective Conductor Test Probe on the market were real "probe" that had to be held horizontally. The result was an unnatural, strenuous posture for the test personnel's hand.

Only with the PE 81 Protective Conductor Test Probe is a Test Probe on the market that meets the ergonomic requirements in a test field. It enables the test personnel to perform the frequently required PE conductor tests with a natural and therefore ergonomic hand position. In test series with customers, the concept was optimized with an integrated start button.

Of course, the Test Probe is designed in 4-wire technology (Kelvin technology), which means that the measuring lead and the test lead are routed separately. Thus all feed lines are compensated. This is made possible by a highly flexible Special Cable that was developed specifically for this application. Both the test lead for currents - 30 AAC and the measuring and control lead are integrated in one cable. In connection with the test devices from SPS electronic, it is possible to start the PE conductor test automatically. For this purpose, a small voltage is fed to the DUT via the PE 81 Protective Conductor Test Probe. When the DUT is contacted, the PE test starts automatically - a considerable simplification for many PE test points.

The electrical connection is made via a high quality, Multi-pole high current connector. The tungsten Test Probe can be replaced without tools and is available as a spare part.

		Ground Bond Test Probe PE 81		
		PE 81-I	PE 81-L	PE 81-F
		With High-current plug (ST 04-i) and start button	With Banana plug (4 mm I 0.6 in), without start button	With free ends
Max. Operating Voltage	DC Voltage	1500 VDC		
Test Voltage	Contour / Connection Connection / Start Switch	1500 VDC 1500 VDC		
Other Setup		Safety extra-low voltage (SELV) Ergonomic lightweight test pistol made of impact resistant plastic Exchangeable tungsten test probe for a long service life, spring bushing for easy replacement Integrated, high-quality start switch Multi-pole, highly flexible special cable for test voltage and control signals Electrical connection via multi-pole high current connector		
Cable lengths	Standard	2 m I 6.6 ft 5 m I 16.4 ft 10 m I 32.8 ft 15 m I 49.2 ft		

Replacement tips	
KS 12-w	KS 12-wl
Replacement tungsten tip, plug-in fastening, 34 mm	Tungsten replacement tip, plug-in attachment, 55 mm