



Tan delta test attachment

Integral cable diagnosis system

Benefits

- ▶ Very accurate measurement
- ▶ Leakage current correction for precise measurements
- ▶ Unaffected by multiple earthings
- ▶ Easy to operate 

Description

The tan delta test attachment enables a precise determination of the condition of the cable. Integral aging effects, such as the degree of humidity and "water treeing" can be simply recognised and quantified, making the tan delta test attachment the ideal instrument for monitoring the condition of the cable.


The tan delta test attachment can be used as a standalone system with the portable VLF sine systems from SebaKMT or in combination with the integrated VLF sine test systems in test vehicles.

The system achieves very accurate measurements because it measures at the high voltage potential and the measuring head can be placed very close to the test object.

The test unit and laptop have a wireless connection with a range of 75 m. The EasyGo software simplifies operation and logging. Especially test sequences can be created easily and intuitively.

During the measurement, the voltage current and the loss factor δ are displayed graphically in real time, which means critical cables can be detected at an early stage and the voltage load on the test object can be kept to a minimum.

All the benefits at a glance

- ▶ Very accurate measurement
- ▶ Optional leakage current correction
- ▶ EasyGo operating software 
- ▶ High wireless range
- ▶ Measurement at high voltage potential
- ▶ Light and portable

Options

- ▶ Leakage current correction



Technical data	
Tan δ measuring range	
Measuring range	1 x 10 ⁻⁴ ... 1 x 10 ⁰
Measuring accuracy	1 x 10 ⁻⁴
Resolution	1 x 10 ⁻⁵
Frequency	0.01 Hz ... 10 Hz
Testable cable capacitance	2 nF ... 3 μ F corresponding to 10 m ... 15 km VPE cable
Measuring range and current	
Measuring range of test unit (MDU)	1 μ A ... 25 mA
Measuring range of diverter box (TCU)	1 μ A ... 1 mA
Measuring range insulation resistance	
Measuring range	1 M Ω ... 10 T Ω
Power supply	
Test unit / diverter box	Battery-operated
Charger	90 V ... 240 V, 50/60 Hz AC (via power cable) or 12 V DC
Operating time	
Test unit (MDU)	16 hours (operation with TCU) 32 hours (operation without TCU)
Diverter box (TCU)	24 hours
Charging time	3.5 hours
Operating temperature range	-25 °C ... +55 °C
Storage temperature range	-40 °C ... +70 °C
Weight	
System (MDU + TCU) with case, tripod, accessories and cables	12.25 kg
Dimensions	
System case	400 x 170 x 330 mm