


## tanDelta test attachment Integral cable diagnosis system



- Automatic result interpretation acc. to IEEE 400.2
- Leakage current correction for precise measurements
- Unaffected by multiple earthings
- Easy to operate **easyGO** 

### DESCRIPTION

The tanDelta test attachment allows the operator to precisely determine a cable's condition. 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 cable conditions.

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

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

During the measurement, the voltage current and the loss factor  $\delta$  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.

At the end of the measurement a recommendation will be given based on the IEEE 400.2 standard and a type of insulation selected.



# tanDelta test attachment

## Integral cable diagnosis system

### TECHNICAL DATA\*

#### Tan $\delta$ measuring range

Measuring range	1 x 10 <sup>-4</sup> ... 1 x 10 <sup>0</sup>
Measuring accuracy	1 x 10 <sup>-4</sup>
Resolution	1 x 10 <sup>-5</sup>
Frequency	0.01 Hz ... 10 Hz
Testable cable capacitance	2 nF ... 3 $\mu$ F

#### Measuring range current

Test unit (MDU)	1 $\mu$ A ... 25 mA
Diverter box (TCU)	1 $\mu$ A ... 1 mA

#### Measuring range insulation resistance

Measuring range	1 M $\Omega$ ... 10 T $\Omega$
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#### 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 (with TCU) 32 hours (without TCU)
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Diverter box (TCU)	24 hours
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Charging time	3.5 hours
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Operating temperature	-25 °C ... +55 °C
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Storage temperature	-40 °C ... +70 °C
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#### Weight

System (MDU + TCU) with case, tripod, accessories and cables	12,25 kg
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#### Dimensions

System case	400 x 170 x 330 mm
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### ALL THE BENEFITS AT A GLANCE

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

### SCOPE OF DELIVERY

- Charging case with test unit MDU and data reception unit DRU
- Tripod
- Set of cables tanDelta
- HV connection cable 1 m and 3 m

### ORDERING INFORMATION

Product	Order no.
<b>tanDelta attachment, consisting of:</b>	
For VLF Systems with NAFTA lead set following two part numbers are needed PN 810001055 and PN 1008-203	
<b>TAN D-MDU;</b> Measurement data unit	820017133
<b>TAN D-SST;</b> Tripod	820017342
<b>TAN D-LST;</b> Charging and storage case	820017426
<b>TAN D-DRU-2-USB;</b> Data reception unit	1012471
<b>VL TAN-D-S;</b> Set of cables TAN D-S	820020285
<b>HSK 33;</b> TAN D High-voltage lead 1 m	820020288
<b>HSK 34;</b> TAN D High-voltage lead 3 m	820020993
<b>TAN D Software</b>	128309349
<b>Options:</b>	
Notebook ENG (other languages on request)	820024436
Diagnostic connection set	890017909
Earthing stick	820010759
<b>TAN D-UP-LCC, Leakage current correction consisting of:</b>	
<b>TAN D-TCU;</b> Leakage current measurement unit	820017261
<b>TAN D-GB;</b> Guarding tape (2x needed)	820020289
<b>VL TAN-D-UP;</b> Set of cables TAN D-UP-LCC	820023944

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