

## BAUR High voltage testing and diagnostics unit frida, frida TD

The mobile BAUR testing and diagnostics unit frida is used

- for testing medium-voltage cables and electrical equipment,
- for cable sheath testing,
- for cable diagnostics: integrated tan delta measurement, and/or partial discharge measurement and location in combination with BAUR's partial discharge diagnostic system 'PD Portable'



### Integrated tan delta measurement

Easy test setup

Fully automatic test and diagnosis sequence

Maximum precision

Maximum safety



### Features

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| <ul style="list-style-type: none"><li>▪ Testing electrical equipment and medium-voltage cables up to 15 kV</li><li>▪ Max. test voltage 24 kV<sub>rms</sub></li><li>▪ Cable testing according to: DIN VDE 0276-620/621 (CENELEC HD 620/621), IEEE P 400.2-2004, IEEE 400-2001</li><li>▪ VLF truesinus® test technology enables exact load-independent sinusoidal high voltage</li><li>▪ Cable sheath testing according to: IEC 60502/IEC 60229</li><li>▪ Insulation tests on electrical equipment according to IEEE 433</li></ul> | <ul style="list-style-type: none"><li>▪ Tan delta diagnostics for electrical equipment and medium-voltage cables up to 20 kV</li><li>▪ Precise tan delta measurement with an accuracy of <math>1 \times 10^{-4}</math></li><li>▪ Quicker and easier measurement structure</li><li>▪ Fully automated and individually programmable diagnostic sequences incl. evaluation</li><li>▪ Easy and intuitive operation</li><li>▪ No additional external hardware required for tan delta measurements</li></ul> | <ul style="list-style-type: none"><li>▪ Integrated measurement data storage</li><li>▪ Data export via USB interface</li><li>▪ Management of test and measurement data with PC software</li><li>▪ Integrated cable compartment with connecting cable</li><li>▪ Automatic discharging device</li><li>▪ Optional partial discharge diagnostic system</li><li>▪ Small, compact and light</li></ul> |
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## Technical data

### General

Frequency range	0.01 ... 0.1 Hz	Conforming to CE	EN 61010-01; EN 50191; EN 55011; EN 61000-4
Input voltage	110...240 V, 50/60 Hz	Data interface	USB 2.0
Max. power consumption	300 W	Protection class	IP 54
Ambient temperature	-10...+50 °C	Languages	German, English, Dutch, French, Spanish, Italian, Portuguese, Czech, Polish, Russian, Korean, Malay, Chinese (Cn), Chinese (Tw)
Storage temperature	-20...+60 °C	Dimensions (W x H x D)	438 x 412 x 220 mm
Weight	19.5 kg		

### Output voltage

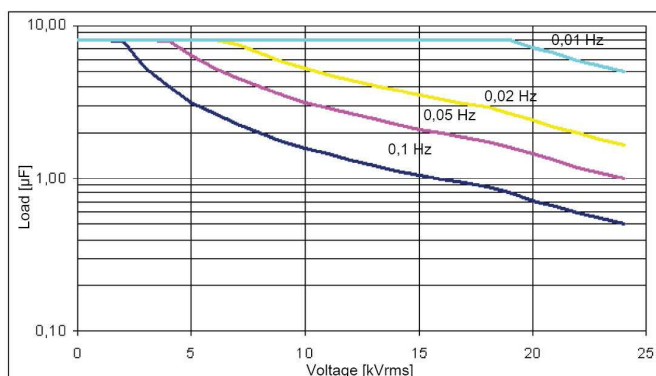
### Output current

VLF truesinus®	1...24 kV <sub>rms</sub> (34 kV <sub>peak</sub> )	Measurement range	0...14 mA
VLF rectangular wave voltage	1...34 kV	Resolution	1 µA
DC voltage	±34 kV	Accuracy	1 %
Resolution	0.1 kV	Max. load	0.5 µF at 0.1 Hz, 24 kV <sub>rms</sub>
Accuracy	1 %		1.0 µF at 0.05 Hz, 24 kV <sub>rms</sub>
Load range	10 nF...8 µF		8.0 µF at 0.01 Hz, 18 kV <sub>rms</sub>

### Tan delta measurement (frida TD)

VLF truesinus®	1...24 kV <sub>rms</sub>	Tan delta measurement frequency	0.1 Hz
Load range	10 nF...8 µF	Detection of termination surface leakage currents	with VSE box (optional)
Accuracy	1x10 <sup>-4</sup>	Resolution	1x10 <sup>-5</sup>

### Load diagram VLF truesinus®



### frida delivery includes

- HV testing device with 5 m HV connection cable (connected)
- Ground and discharge rod
- Earth cable
- Jumper plug for external emergency-stop unit
- Mains connection cable, User manual

### Options

- Partial discharge location system PD portable
- External emergency-stop unit with signal lamps (25 m or 50 m)

### frida TD delivery includes

- HV testing device with 5 m HV connection cable (connected)
- Ground and discharge rod
- Earth cable
- Jumper plug for external emergency-stop unit
- Tan delta measurement incl. PC software
- Mains connection cable, User manual

### Options

- VSE box incl. connecting cable
- Partial discharge location system PD portable
- External emergency-stop unit with signal lamps (25 m or 50 m)