ENSURING THE FLOW.

BAUR High voltage testing and diagnostic device

frida, frida TD

The mobile BAUR testing and diagnostic device 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'

truesinus® digital technology

Integrated tan delta measurement

Easy test setup

Fully automatic test and diagnosis sequence

Maximum precision

Maximum safety

Features

- Testing electrical equipment and medium-voltage cables up to 15 kV
- Max. test voltage 24 kV_{eff}
- Cable testing according to: VDE DIN 0276-620/621 (CENELEC HD 620/621), IEEE P 400.2-2004, IEEE 400-2001
- VLF true sine® test technology enables exact load-independent sinusoidal high voltage
- Cable sheath testing according to: IEEE 433, IEC 60502, VDE 0276-620

- Tan delta diagnostics for electrical equipment and medium-voltage cables up to 20 kV
- Precise tan delta measurement with an accuracy of 1×10^{-4}
- Quicker and easier measurement structure
- Fully automated and individually programmable diagnostic sequences incl. evaluation
- Easy and intuitive operation
- No additional external hardware required for tan delta measurements

- Integrated measurement data storage
- Data export via USB interface
- Management of test and measurement data with PC software
- Integrated cable compartment with connecting cable
- Automatic discharging device
- Optional partial discharge diagnostic system
- Small, compact and light

BAUR Prüf- und Messtechnik GmbH - Raiffeisenstrasse 8, A-6832 Sulz/Austria - headoffice@baur.at - www.baur.at - T: +43/5522/4941-0 - F: +43/5522/4941-3

USA Distributor: **HV TECHNOLOGIES, Inc.** www.hvtechnologies.com
Tel: +1-703-365-2330 hvsales@hvtechnologies.com
HV TECHNOLOGIES, Inc.

ENSURING THE FLOW.

Technical data

General

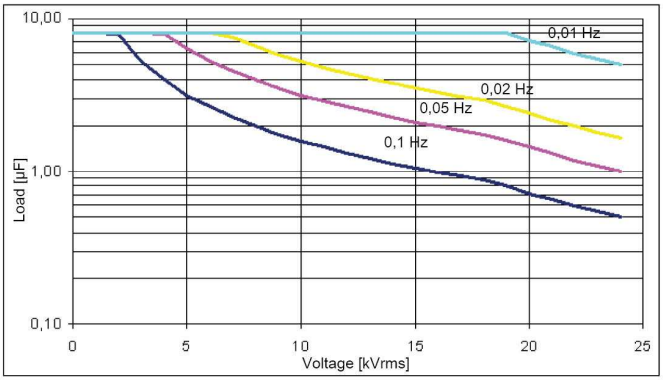
Frequency range	0.01 … 0.1 Hz	Conforming to CE	EN 61010-01; EN 50191; EN 55011; EN 61000-4
Input voltage	110…240 V, 50/60 Hz	Data interface	USB 2.0
Max. power consumption	300 W	Protection class	IP 54
Ambient temperature	-10…+50 ℃	Languages	German, English, Dutch, French, Spanish, Italian, Portuguese,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

Output voltage		Output current	
VLF true sine	1…24 kV_{eff} (34 kV_{peak})	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_{eff}
Accuracy	1 %		1.0 µF at 0.05 Hz, 24 kV_{eff}
Load range	10 nF...8 µF		8.0 µF at 0.01 Hz, 18 kV_{eff}

Tan delta measurement (frida TD)

VLF true sine	1…24 kV_{eff}	Tan delta measurement frequency	0.1 Hz
Load range	10 nF...8 µF	Detection of termination surface leakage currents	with VSE box (optional)
Accuracy	$1x10^{-4}$	Resolution	$1x10^{-5}$

Load diagram VLF true sine



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)

qualityaustria SYSTEM CERTIFIED ISO 9001:2000 no.00465/0