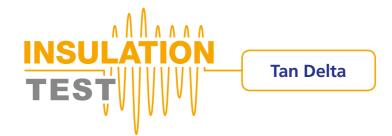
Testing Solutions for Insulation Materials.





EPRO Gallspach GmbH Styriastraße 2 4713 Gallspach • Austria Phone:+43/7248/68462-0 Fax: +43/7248/68463-37 Web: www.epro.at E-mail: eprooffice@epro.at





Smart Tan Delta Testing for Solid Insulation Materials.



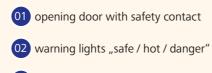




Smart Tan Delta Testing for Solid Insulation Material!

This machine is an unique, easy and cost efficient device for **Tan Delta testing of solid insulation materials** under controlled temperature and pressure. This machine benefits from the **big experience of EPRO in automated test systems**. The included software is field proven, intuitive and easy to operate.

»Machine Parts«



- 03 emergency stop button
- 04 test voltage transformer and electronic power source inside
- 05 induction heated bottom electrode
- 06 induction heated top electrode
- 07 pneumatic pressure cylinder

The Machine Highlights:

Covered Standards:

- DIN / IEC 60093_1993
- ASTM D150-98
- Other standards can be defined

Tan Delta

AC Voltage:

INSULATION

TEST

- Amplitude adjustable 0 ... 630 VAC*
- Frequency adjustable 10 ... 1000 Hz
- Output 45 VA *2.000V version available, other voltage or power on request.

Pressure:

 Pressure on probe adjustable from 20 to 1000 g/cm²

Temperature:

The electrodes are made of stainless

steel and can be dismounted very

easy for cleaning purposes.

HOT DANGER

06

- Induction heating, Power 250W
- All electrode parts seperately regulated
- Temperature adjustable from ambient to 200 °C
- Temperature regulation fully automatic
- Time to reach 200 °C from 25°C approx.
 15 minutes (12°C/min)

Safety:

- Door contact
- Emergency stop
- Safety lamps



PC software (PC not included in

delivery volume). The measured

saved in Microsoft Excel format.

of other parameters.

Values for capacitance, Tan Delta,

temperature, pressure, power factor

and **test time** are recorded, and can be graphically displayed in function

values are recorded in real time and

Tan Delta

INSULATION

TEST

Measurement Accuracy:

Software Capacitance Range: All values and complete machine control is done via the included Capacitance:

Loss factor Tan Delta:

Temperature control:

Temperature measurem



»PC Requirements«

- Quadri core processor, minimum i5
- 2 Pcs. Of free USB ports
- Minimum screen resolution 1600 x 900 pixel
- Operating system Microsoft Windows© XP / Vista / 7 / 8 / 10
- Microsoft© .Net framework client 4.0

epro

HOT DANGER





	10 pF 1,5 nF
	\pm 0,1% Rdg \pm 1 pF between 50 pF and 1,5 nF
	\pm 0,01% Rdg \pm 1.10 ⁻⁴ between 50 pF and 1,5 nF
	± 3,0 °C between 10 °C and 79 °C ± 5,0 °C between 80 °C and 200 °C
nent:	± 1,0 °C between 10 °C and 79 °C ± 2,0 °C between 80 °C and 210 °C



»Measurement Process«

- The electrodes are closed with max. pressure (without test object) for heating
- After heating the electrodes are opened and the test object is placed
- Start of the test
- It is also possible to process a test from cold to hot
- Frequency or voltage ramp available
- User specific temperature profile

