



Low Voltage Dielectric oil tester

LDTR

TECHNICAL SPECIFICATIONS



General information

Vettiner, with nearly 90 years of expertise in high-voltage testing since 1933, introduces the LDTR, a 10V precision Tan δ tester specifically engineered for dielectric oils with ultra-low losses.

Main applications

Testing of ultra-low-loss dielectric oils
 Oil quality control
 Oil ageing test
 Laboratories, Production & Maintenance

Calibration

Easy check & easy calibration
 Complies with IEC 61620
Vettiner calibration certificate included (BNM Traceable)*
 *External laboratory calibration (ISO 17025,...) under request

Benefits

HMI 10" Touch screen PC Control & sturdy controller base
 PC Benefits & Built-in CSV conversion
 Easy use, very intuitive, & built-in interactive manual
 Customizable software
 Total operator safety & ease of use
 10 years of After Sales Service guaranteed.
 Sturdiness & reliability over time
 No or reduced maintenance over time

Environment

Operating temperature: -0°C up to $+40^{\circ}\text{C}$
 Storage temperature: -0°C up to $+60^{\circ}\text{C}$

Measurement

Main Measured Values (All displayed)

	Ranges	Resolution	Accuracy
Voltage (*)	10V	-	$\pm 1.0\%$
Capacitance (*)	10pF - 2nF	0,01 pF	$1.0\% \pm 1 \text{dgt}$
Conductance (*)	4E^{-6} - 400E^{-17} S	1E-10 à 1E-17 S	$1.0\% \pm 1 \text{dgt}$
Tan Delta - Tan d	Calculated from Capacitance & conductance		
Permittivity - ϵ_r	Calculated from capacitance		
Temperature	0°C - 150°C	0.1°C	$\pm 0.5^{\circ}\text{C}$

*better on request

Other Tests or interfaces

Software to drive tests, manage tests results...
 Interface: USB for results storage or keyboard, LAN connexion, HDMI port...

Some of the above technical data are valid at the above-mentioned date but could change without any notice at any time (Ex. dimensions or weight or else...)

Dimensions & weight

Product

Dimension 364 mm x 386 mm x 200 mm

Weight kg

Packing

Dimension 465 mm x 370 mm x 175 mm

Weight 15 kg

Option and accessories

Ref	Description	
	Multi-Conductance standard box	To be agreed
	Multi-Capacitance standard box	To be agreed
SCL/SCS	Sample test cell, liquids or solids	To be agreed
SC/SH	Heating Control for self-heating test cells	To be agreed
TRAIN	Eventual training	To be agreed, free in our premises
INSTAL.	Eventual on site setting up	To be agreed
EOR	Eventual other requests	To be agreed, Ex: On site tests

All options and accessories specifications under request

*To be agreed

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