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TIAR - Tan delta and dielectric strength of liquid dielectrics measurement device

For a tan delta measurement, the main technical characteristics are: measurement range ; resolution when measuring the tan delta value and dielectric conductivity.

In terms of regulation range and accuracy of setting the amplitude and frequency of the testing voltage, purity of the harmonic composition of the signal, TIAR is unmatched with the world analogues.

This is achieved by digitally setting the sine wave and using an original high-quality high-voltage amplifier to supply voltage to the measured object.

TIAR provides complete automation of the measurement process.

ES France - Département Bio-Tests & Industries - 127 rue de Buzenval BP 26 - 92380 Garches
Tél. 01 47 95 99 90 - Fax. 01 47 01 16 22 - e-mail: bio@es-france.com - Site Web: www.es-france.com

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TIAR working parameters comparison with other brands

Parameter	TIAR	Other Brands
Tan delta measurement	4 … 1x	4 … 1x
Resolution	1x	1x
Measurement of relative dielectric conductivity	1 ... 30	1 ... 30
Resolution	0,01	0,01
Testing voltage	500 ... 2000 V RMS	500 ... 2000 V RMS
Testing voltage frequency	45 ... 65 Гц	50, 60 Гц
Temperature measurement range	10 ... 110 ^{o}C	10 ... 110 ^{o}C
Temperature measurement resolution	0,1^{o}C	0,1^{o}C
Weight	Up to 6 kg	28 kg

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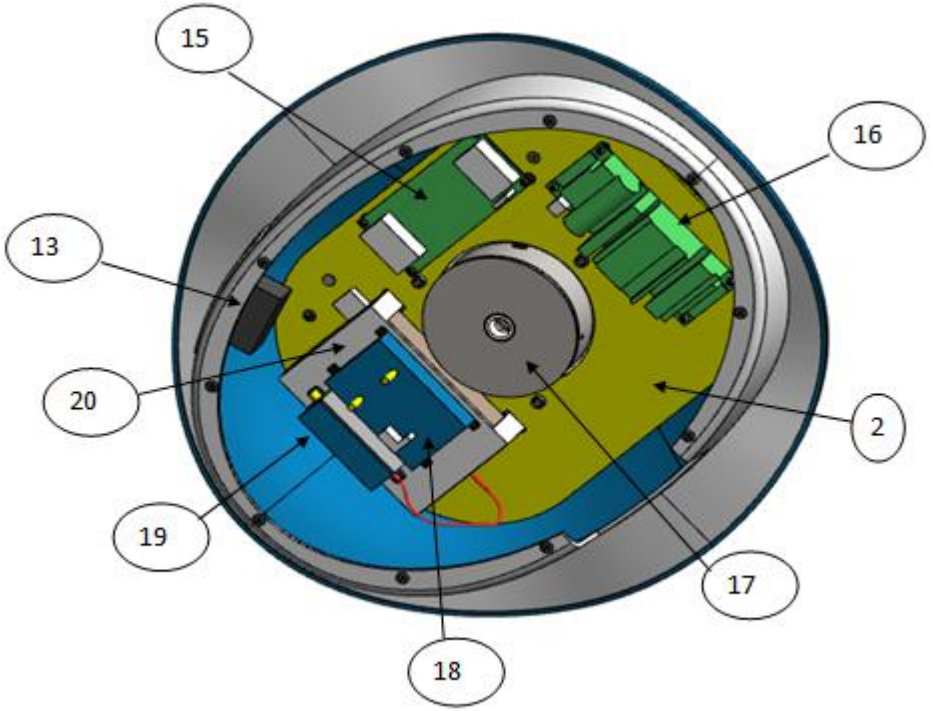
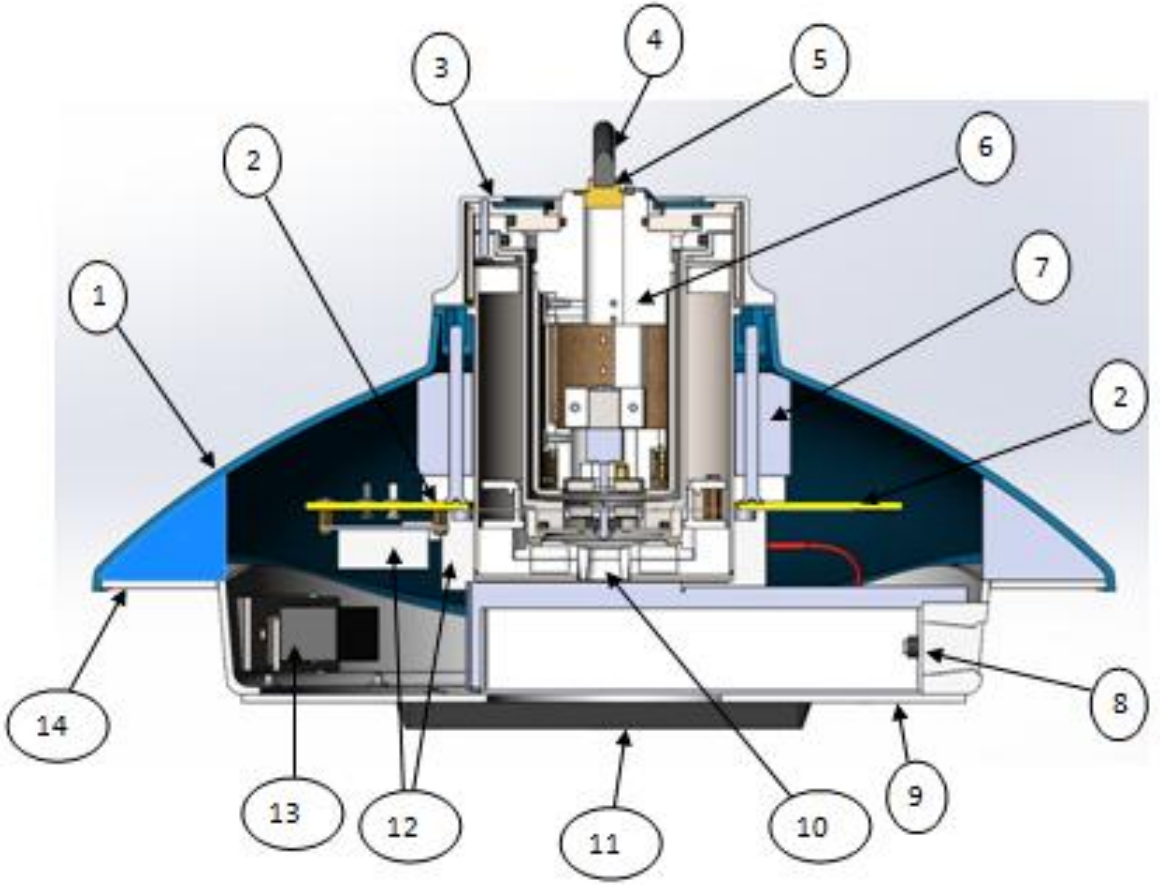
TIAR design





1 - Upper part of the unit body, 2 - Mounting plate, 3 - the cover of the measuring cell, 4 - Cell communication cable, 5 - Connector for connecting the cell cable, 6 - Measuring cell, 7 - the Fastening clamp, 8 - Niche of the oil drain pan, 9 - Installation bottom (bottom cover), 10 - Cell drain hole, 11 - Legs, 12 - Electronic modules, 13 - Power cable connection module, 14 - Handles for lifting the unit, 15 - Electronic control module, 16 - Electronic module of power supply of the installation, 17 - The lower part of the measuring cell with a drain hole of the oil drain valve, 18 - Electronic module of measurement, 19 - Reference capacitor, 20 - Electronic module of the high-voltage amplifier.

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