

▶ Application

The reference measuring cell C-80P (C-100P) is intended for AC voltage measurement on the balanced transformers with the grounded midpoint high-voltage terminals, which are used in OLT-series oil testers.

The sell made as a mobile device with a built-in battery.



▶ Technical specifications

Parameter	Value	
	C-80P	C-100P
Measured voltage, kV, RMS	10 to 80	10 to 100
Measurement uncertainty, %	1.0 of reading	
Measured frequency, Hz	45 – 65	
Voltage resolution, kV	0.01	
Peak factor resolution, kV	0.01	
Frequency resolution, Hz	0.01	
Inter-electrode gap, mm	221	273
Input resistance, MΩ, min	600	700
Internal battery	LiPO 3.7V	
Charging supply voltage, V	9 – 12	
Continuous run time on full charge, hours	4	
Consumption supply current, mA, max	50	
Dimensions (W × H × D), mm, max	280 × 90 × 50	327 × 91 × 80
Net weight, kg, max	1.5	





► Application

A digital automatic dissipation factor measurement apparatus Tangens-3MP is intended for taking measurements of the transformer oil dielectric dissipation factor according to IEC 60247 at 50 Hz frequency.

► Technical specifications



YAPI-3P

The system measures:

- dissipation factor $\text{tg}\delta$;
- dielectric capacitivity ϵ ;
- capacitance C ;
- voltage applied to a measurement cell;
- a transformer oil sample temperature.

Parameter	Value
Dissipation factor (DF) measuring range	0.0001 – 1.0000 (0.01% – 100 %)
DF measuring accuracy	$\pm (0.03 \text{ DF} + 0.0002)$
Resolution	0.00001
Output AC voltage, V RMS	1940 – 2060
Measuring uncertainty, %	2.5 of reading
Capacitance measuring range, pF	5 – 30
Testing temperature, °C	90
Temperature measuring accuracy, °C	± 1
Measuring time for "Program 1" (measuring at 70 °C and 90 °C), minutes	35
Measuring time for "Program 2" (measuring at 70 °C, 80 °C and 90 °C on increasing temperature and measuring at 90 °C, 80 °C and 70 °C on decreasing temperature), minutes	85
Input voltage, V	$230 \pm 10 \%$
Frequency, Hz	50 ± 1
Power consumption, kVA, max	0.3
Dimensions (W × H × D), mm	405 × 260 × 90
Weight (incl. package), kg, max	10

► YAPI-3 test cell specifications

Terminals count	3
Volume, cm ³	11 – 13
AC voltage corresponding to electric field strength of 1 MV/m, kV RMS	2