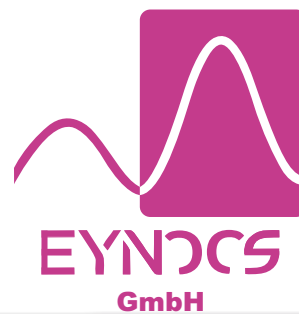


## Omega Modular Dielectric Impedance Analyzer

## Product specifications



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## General

Dimensions	36 x 26 x 12.5 cm 14.1 x 10.2 x 4.9 inch
Weight	3.5 kg, 7.7 lbs
Sample Connections	4, 3 or 2 wires HZx( 25cm cable) Fixed connection HZa
Power source	AC:110-220V, DC: 15V 3A
PC Interface	RJ45(Ethernet), USB 2.0, GPIB, RS-485
Power Consumption	< 30 W
Operating temperature	10° to 40°C
Specification limits	20° to 27°C
Humidity	< 60 %

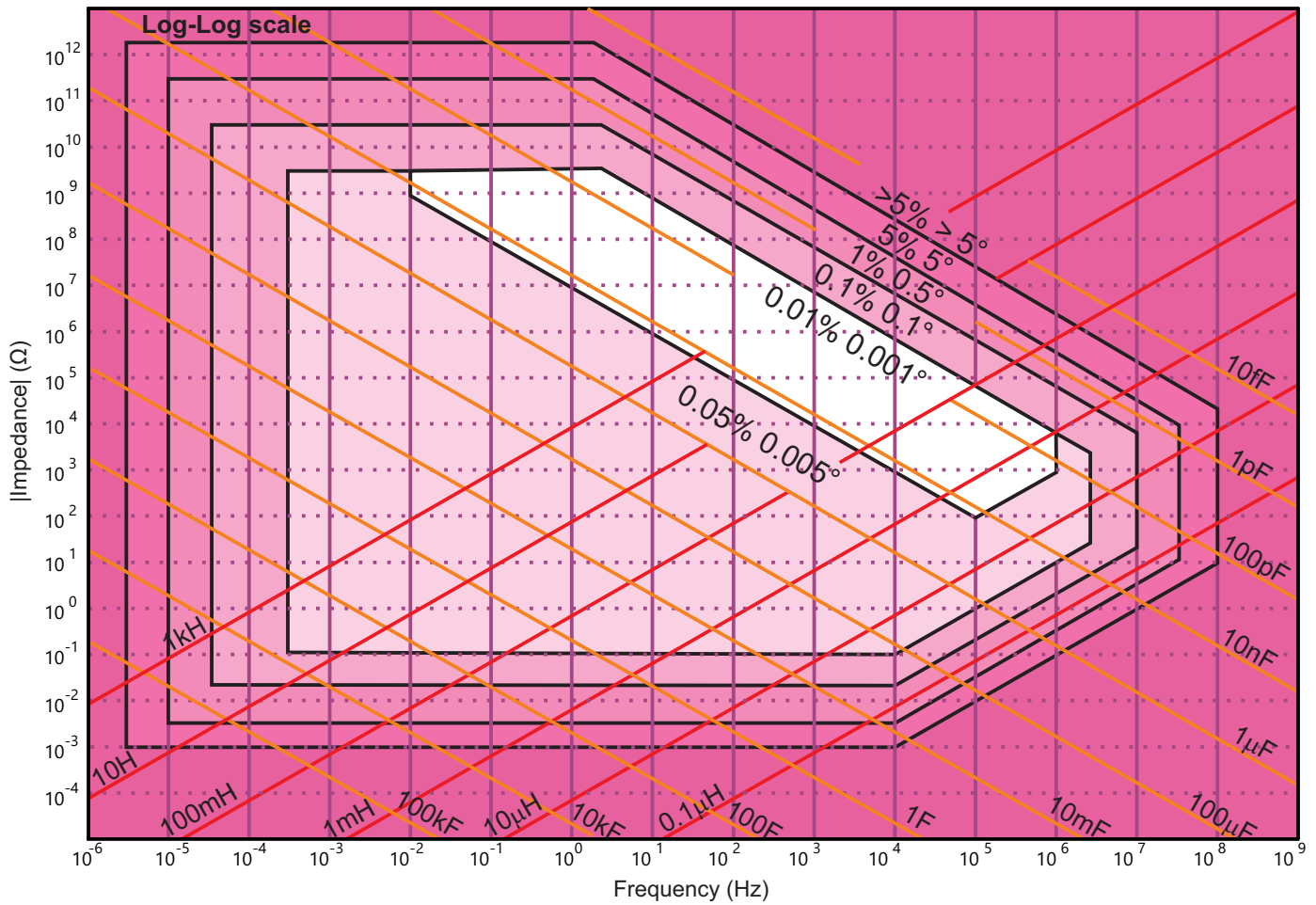
## Measurement specifications<sup>(Highest spec.)</sup>

Frequency range	1 $\mu$ Hz – 100 MHz
Impedance range	1 m $\Omega$ – 500 T $\Omega$
Capacitance range	1 fF – 1 kF
Inductance range	10 nH – 1 kH
Basic Precision	0.01%
Basic Phase angle	0.001°
Basic Loss factor	<2e-5
Signal Voltage	3 Vrms AC Generator Signal $\pm$ 40 VDC Bias range

## Upgrade options

Frequency	FR-EX1: 1 $\mu$ Hz – 5 MHz FR-EX2: 1 $\mu$ Hz – 50 Mhz FR-EX3: 1 $\mu$ Hz – 100 Mhz
Bias	$\pm$ 40 VDC Bias range
Limitations	Enhanced Limitations
Capturing speed	Fast Sampling Option
Connection	EX-C1: USB EX-C2: GPIB EX-C3: RS-485

# Accuracy of Measurements



The measurements accuracy table above applies for:

- Generator Output: 1 Vrms
- HZa Sample cell integrated Interface electrodes  
or HZx with 25cm BNC Cable in 2, 3 or 4 Wire Front Connection
- Auto referencing mode enabled
- Integration time of 500 ms or 1 Cycle
- Temperature between 20°C and 27°C
- Humidity < 60%