

Description

This accessory allows the characterisation of air and bio type probes **used inside liquids only**. The characterisation will improve the actual value of the electric field measurement by eoSense inside a dedicated liquid from several tens of % (without eoCal) to few % (with eoCal). This accessory is operated manually with a frequency generator (not supplied). The Longitudinal eoProbe must be placed on the left hole (L). The Transverse eoProbe must be placed on the right hole (T).

Main usage precautions

The eoCal must not be submitted to mechanical constraints or shocks.
The eoCal must be handle with care and stored inside its provided suitcase.
The eoCal must be cleaned with tape water or better with isopropanol after usage.
The eoCal must be only used with non-aggressive liquids.
Do not plunge the eoCal plastic base (electronic board inside) under water or any other liquids.

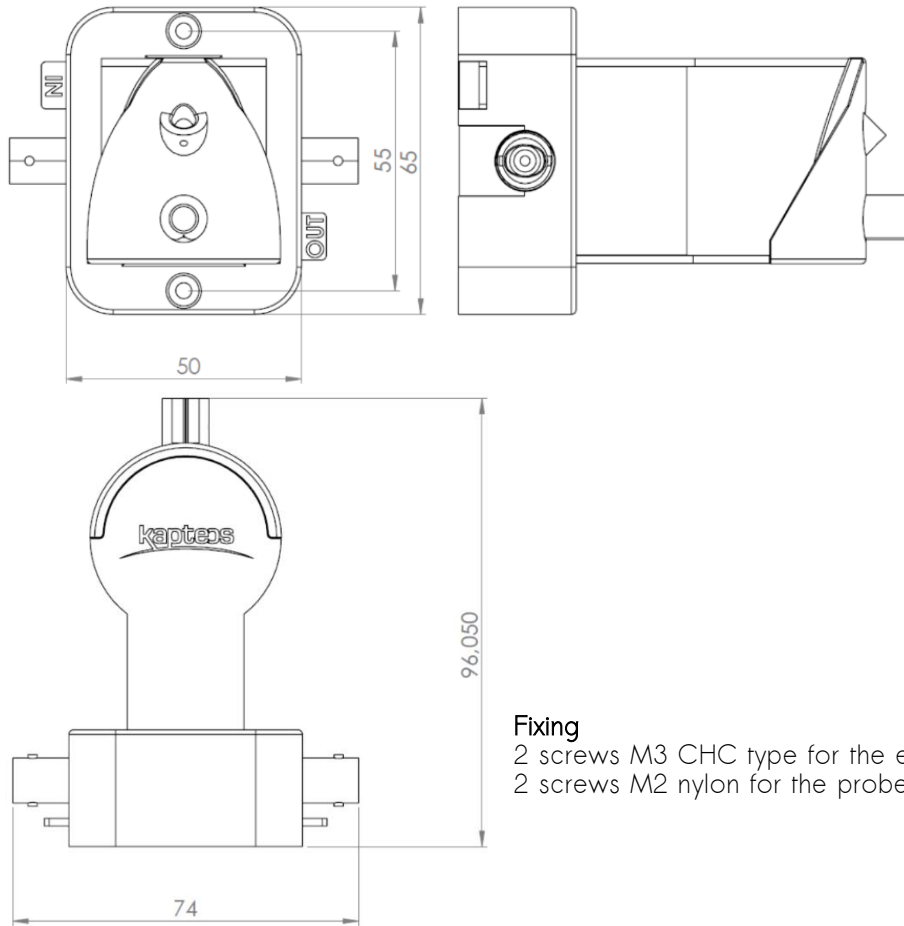
Main features

- Removable liquid container for cleaning
- Usage with any non-aggressive liquids
- 1 BNC input for frequency generator
- 1 BNC output for measured applied electric field signal (possible with eoACq accessory)
- 2 fixing screws M3 CHC type (not supplied)

Main specifications

Frequency bandwidth (deionised water)	1 kHz ... 200 MHz (-3dB)
Input impedance	50 Ω
Output impedance	50 Ω
Volume of liquid	\approx 19 cc
Mechanical base axis fixing	55 mm
Hole angle for longitudinal probe (L)	45° (with respect to electric field)
Hole angle for transverse probe (T)	90° (with respect to electric field)

eoCal dimensions



Fixing

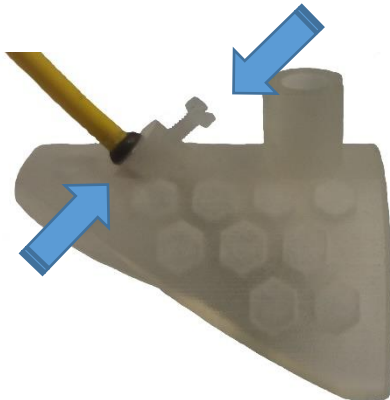
2 screws M3 CHC type for the eoCal base
2 screws M2 nylon for the probe

Mounting the eoProbe

Longitudinal probe

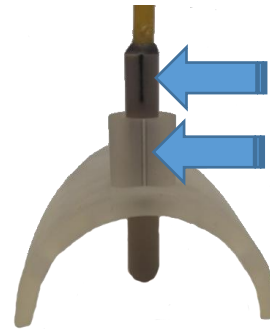
Just insert the eoProbe inside the oblique hole (L).

Gently screw **manually** the eoProbe with the nylon screw.

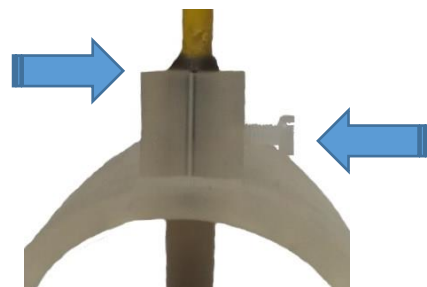


Transverse probe

Insert the eoProbe inside the hole (T) and align the graved mark with the white line of probe holder.

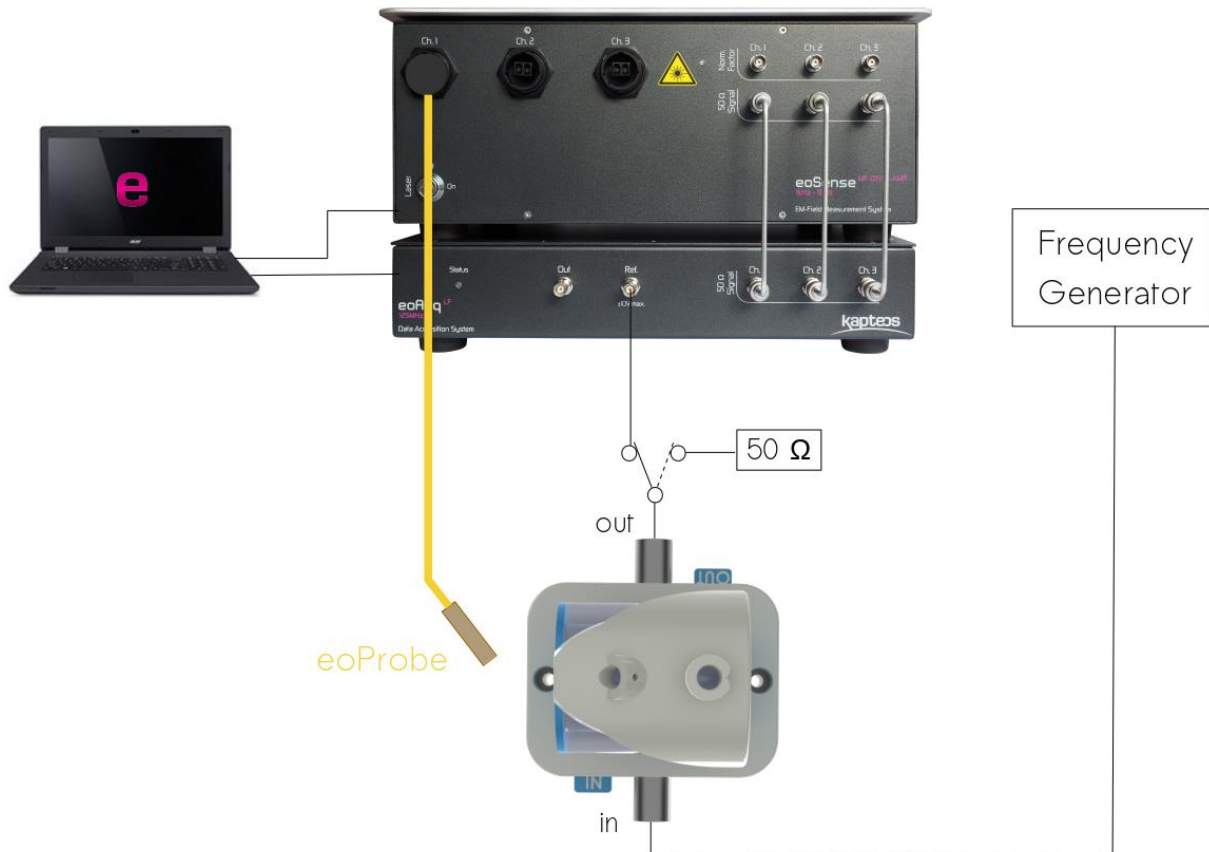


Then insert totally the probe and **gently** screw **manually** the eoProbe with the nylon screw.



eoCal hook-up

The eoCal accessory may be used with the eoAcq system to perform manually the characterisation of the concerned eoProbe inside a specific liquid.



In manual mode measurement, the output BNC connector should be connected to a burden resistor of 50Ω .

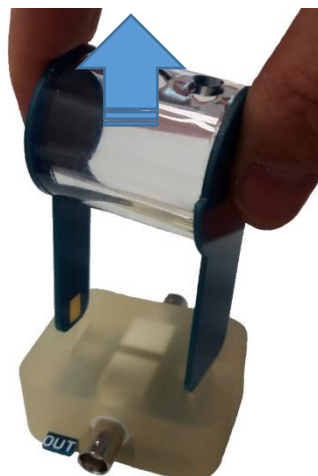
Cleaning the eoCal

Lift up **carefully** the probe holder and unscrew **manually** the nylon screw that maintain the eoProbe and remove the eoProbe. Then clean the eoProbe.

Step 1: lift up the probe holder



Step 2: lift up the container



Step 3: clean the container



After usage, place the eoCal inside its box.

Accessories

No accessories are available.

Services

Calibration

No calibration of eoCal is required.

Rental

Rental of an eoCal is possible from 1 to 4 weeks only in case of an eoSense rental.

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