



eoPod™

DESCRIPTION

Kapteos articulated probe holder eoPod™ allows you to position easily one to three electro-optic probes eoProbe™ in the measurement area, under almost all environmental conditions.

APPLICATIONS

When measuring E field, a key point for achieving reliable measurements is not only to use a non interfering field probe like eoProbe™ but also to use a user-friendly fully dielectric probe holder. eoPod™ has been developed for that purpose with the following specifications:

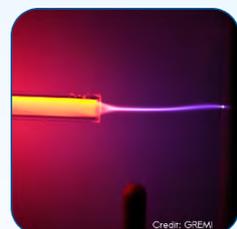
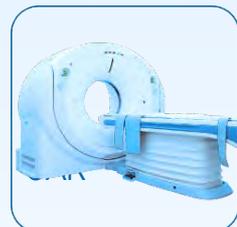
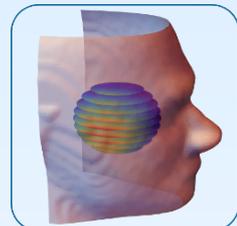
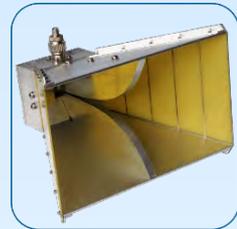
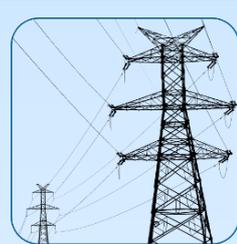
- withstand contact voltage of 25 kV_{rms},
- withstand static magnetic field > 4.7 T
- underwater compatible for measurement carried out in aqueous media,
- docking port up to 3 field probes (2 transverse and 1 longitudinal) to give a comprehensive and punctual (within a volume < 0.15 cm³) measurement of the E field vector.

Depending on your probe line related to your application, you can use two types of articulated probe holder:

- **air** type for use with the **air** and **vac** lines of field probes
- **bio** type for use with the **bio** line of field probes.

SERVICES

A product adaptation of eoPod™ can be carried out on request for very specific need.



Your key partner for electromagnetism
in harsh environment

COMMON FEATURES

Compatible media	air, aqueous liquids
Withstand contact voltage	25 kV _{rms}
Withstand magnetic field	> 4.7 T
Maximum permanent power density ($f > 1$ GHz)	100 mW/cm ²
Vacuum compatibility	Low vacuum > 100 Pa
Number of usable probes	1 to 3
Articulated arm length	280 mm
Base diameter	100 mm
Weight	0.33 kg
Density (for immersion purpose)	1.11
Composition	Fully dielectric, no metal part

SPECIFIC CHARACTERISTICS

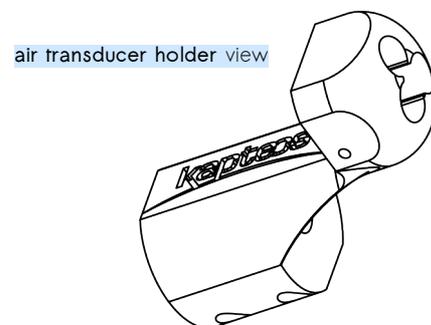
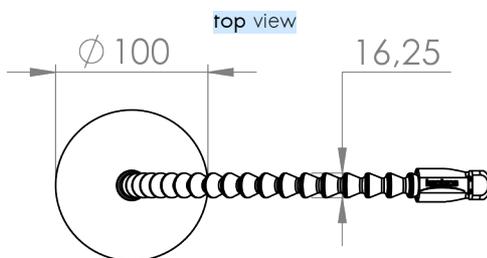
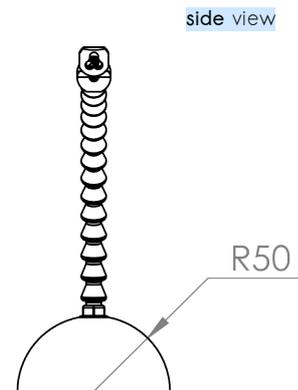
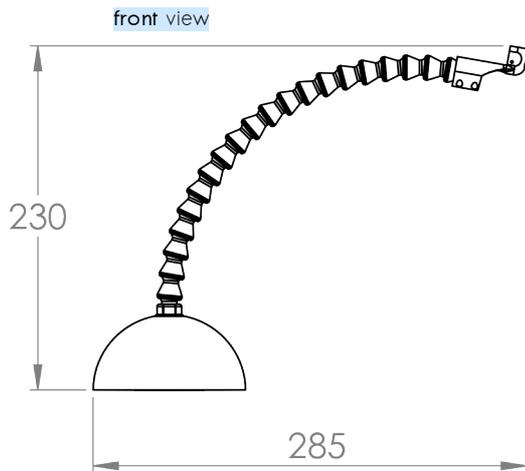
SPECIFIC CHARACTERISTICS	LW-air		LW-bio	
	Compatible probes	EL5-air, ET5-air EL5-vac, ET5-vac	EL1-air, ET1-air EL1-vac, ET1-vac	EL5-bio, ET5-bio
VOI ¹ for a 3-component E field measurement	0.14 cm ³	0,06 cm ³	0.06 cm ³	0.03 cm ³
Transducers configuration (cross section at scale 1:1) for a 3-component E field measurement				

■ transducer sheath ■ electro-optic crystal

¹ Volume Of Interest (defined by the volume occupied by the 3 electro-optic crystals)

PROBE HOLDER DESCRIPTION

Drawings of eoCal™ at scale 1:5 - Dimensions in mm (± 0.5 mm unless otherwise noted) - Drawing of transducer holder at scale 1:1



As part on its on-going product improvement, Kapteos reserves the right to modify the specifications of the product described in this document without notice.

OPERATING CONDITIONS (² Max. 8h per day in case operating conditions are more harsh than storage conditions)

Temperature²	+10°C → +50°C (+50°F → +122°F)
Pressure²	1-2030 hPa (0.015-29,4 psi)
Contact voltage	Max. 25 kV _{rms}
Compatible liquids	Non-aggressive aqueous media
Holder cleaning	Wash with dishwashing product and rinsed with clean water

STORAGE CONDITIONS

Storage	Only in its original case in a clean, dry environment
Temperature	+10°C → +40°C (+50°F → +104°F)
Relative humidity	< 90% - non-condensing
Pressure	690-1075 hPa (10-15,6 psi)

CONTENTS LIST

Holder	Delivered with an embedded probe holder and a screwdriver
Transport case	Cardboard with protective foam
User guide	cf. eoPod User Guide PDF file GU-eoPod

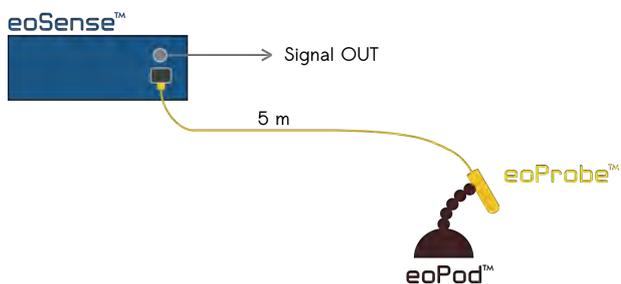
COMPATIBLE DEVICES & ACCESSORIES

E field probe	eoProbe (cf. related data sheet FT-eoProbe)
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APPLICATIONS INFORMATION

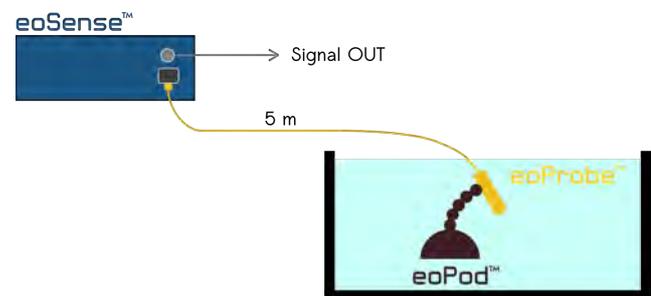
Standard setup

Recommended setup in most cases



Immersed setup

Required setup for E-field measurement in biological liquids



Pay attention: eoPod™ may stick to the bottom of the tank due to the liquid.