



eoPod™

MAIN FEATURES

- Articulated probe holder for straightforward positioning of E-field probes
- Mount for up to 3 E-field probes incorporating a bubble level
- Immersible metal-free holder, MRI compliant
- Harsh environment compatibility like vacuum, pressure, temperature
- 25 kV_{rms} contact withstand voltage
- Set of 3 separable elements: silicon base plate, articulated arm & probe holder
- Intended for use with E-field probes eoProbe™
- Fine adjustment of ETX probe line sensitivity axis with respect to bubble level

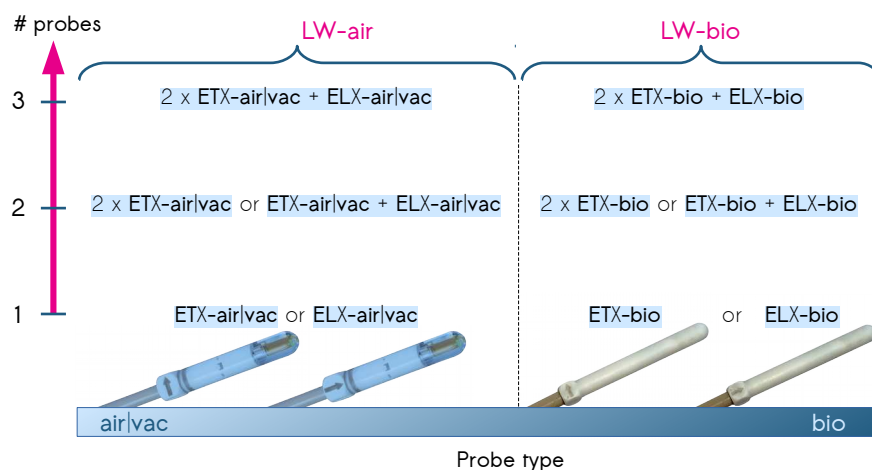
TYPICAL APPLICATIONS

- Antennas characterization
 - SAR assessment in phantoms
 - Plasma characterization
 - MRI compliance for electronic implants
 - Field mapping of high voltage devices
 - EMC malfunction diagnosis
 - EMP measurement
- Health
Science
Defence
Aerospace
Telecommunications

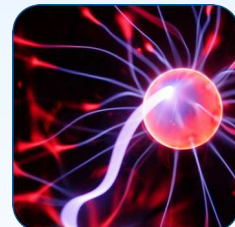
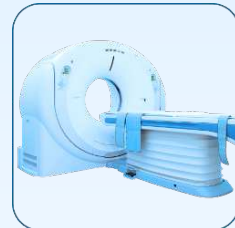
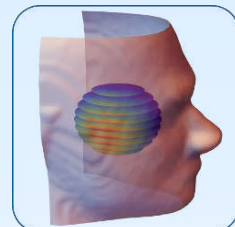
PRODUCTS LINE

Types of holder:

- LW-air line for air/vac probe line,
- LW-bio line for bio probe line.



Your key partner for electromagnetism
in harsh environment



PERFORMANCE SPECIFICATIONS

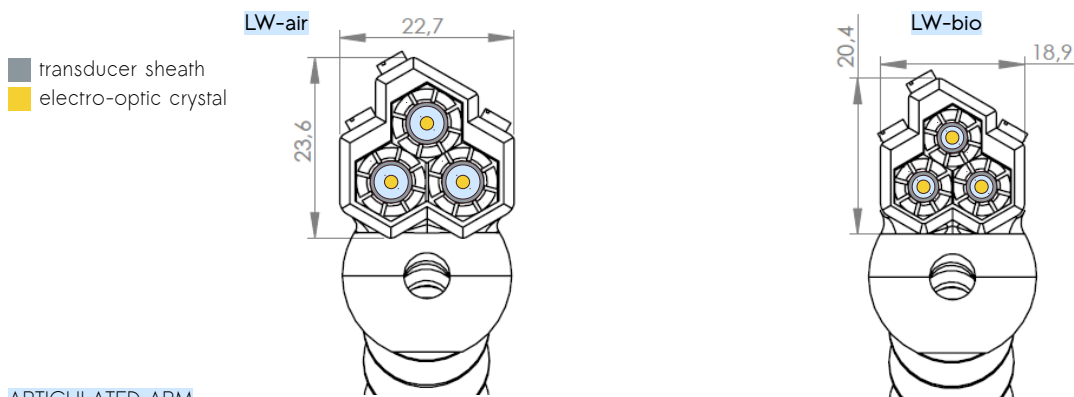
		Min	Typical	Max	Unit
ETX probe axis marker correction	misalignment angle after correction		±1	2	°
	induced restricted selectivity	30	≥ 35		dB
Density	for immersion purpose	1.08	1.11	1.14	
Withstand	voltage	25			kV _{rms}
	magnetic field	4.7			T
	permanent PD ¹ (f < 10 GHz)	0.1			W/cm ²
3 E-field component meas. voxel (cylinder)	diameter for LW-air		10.5	11	mm
	diameter for LW-bio		8.75	9.25	
	length for EX1 probe		1.5	2	
	length for EX5 probe		5.5	6	
Holder tip dielectric constant	ε _r ' for f < 300 GHz	2.75	2.8	2.95	
	tan δ @ 1 GHz		2 · 10 ⁻³		
	tan δ @ 3 GHz		3 · 10 ⁻³		
	tan δ @ 10 GHz		6 · 10 ⁻³		
	tan δ @ 30 GHz		11 · 10 ⁻³		
	tan δ @ 100 GHz		21 · 10 ⁻³		

¹ Power Density.

MECHANICAL SPECIFICATIONS

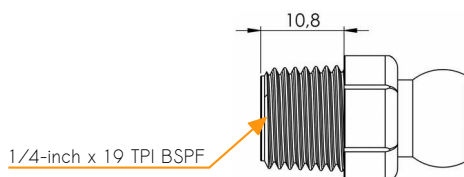
		Min	Typical	Max	Unit
Inter-probe distance (equilateral triangular grid)	LW-air		9		mm
	LW-bio		7.5		
Articulated arm length			280		mm
Silicon base plate diameter			100		mm
Weight		310	330	350	g
Ingress Protection rating			IP68		

TRANSDUCER - Drawings at scale 1:1 - Cross section with 3 probes mounted on holder



ARTICULATED ARM

base thread - Drawings at scale 1:1 - Dimensions in mm (± 0.2 mm)

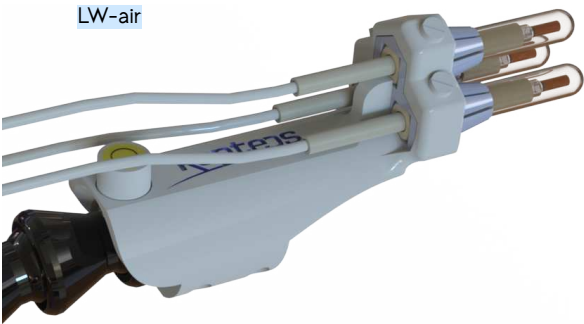


For specific requirements, the articulated arm and its probe holder can be mounted directly on any support with a 1/4-inch x 19 TPI BSPF threaded hole (cf. customer-defined setup on last page).

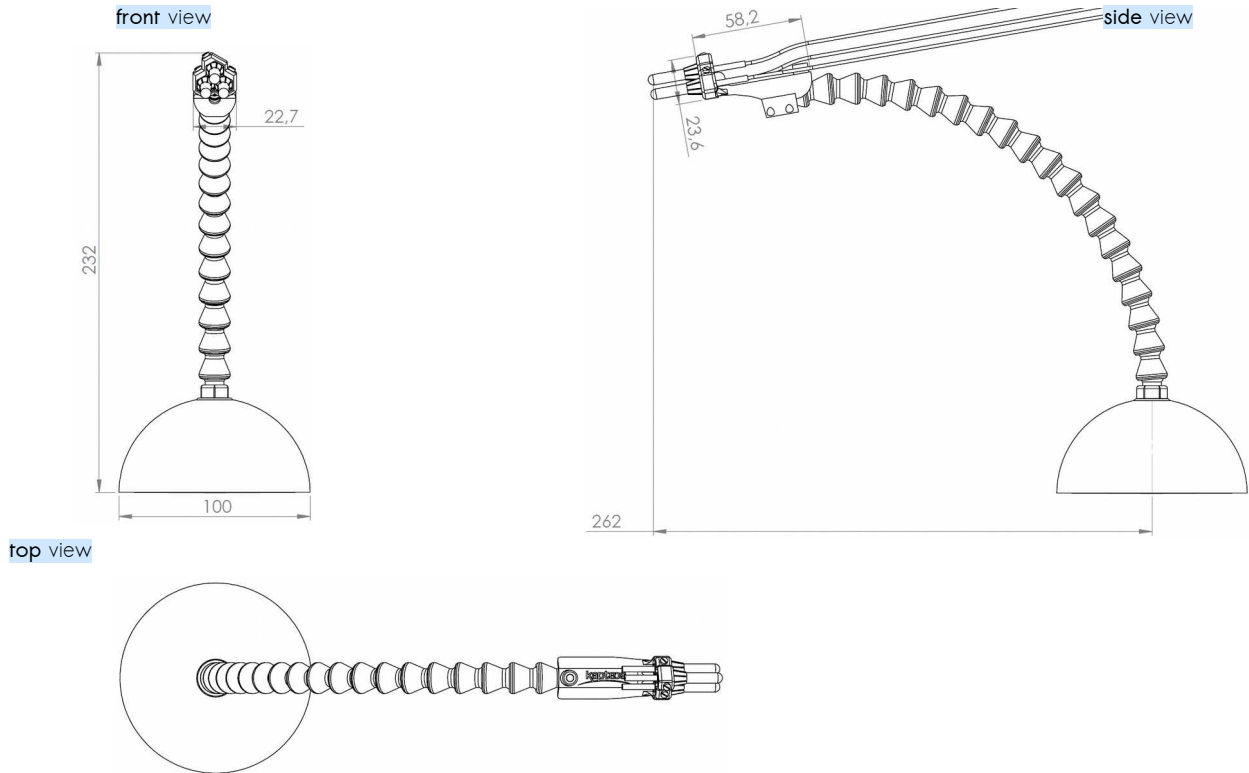
As part on its on-going product improvement, Kapteos reserves the right to modify the specifications of the product described in this document without notice.

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PROBE HOLDER TIP - Drawings at scale 4:5



PROBE HOLDER OVERVIEW LW-air - Drawings at scale 1:4 - Dimensions in mm (± 0.5 mm unless otherwise noted)



ENVIRONMENTAL SPECIFICATIONS

		Min	Typical	Max	Unit
Temperature	operating ²	10		50	°C
	storage	10		40	
Pressure	operating ²	1		2 000	hPa
	storage	690		1 075	
Storage	only in its original case in a clean, dry environment				
Holder cleaning	wash with dishwashing product and rinsed with clean water				

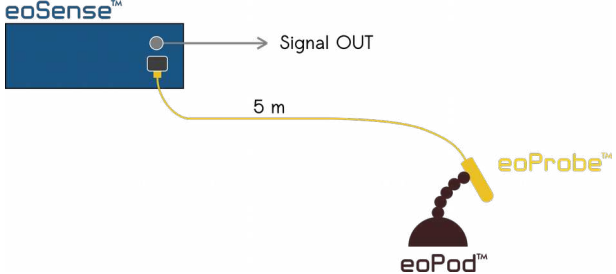
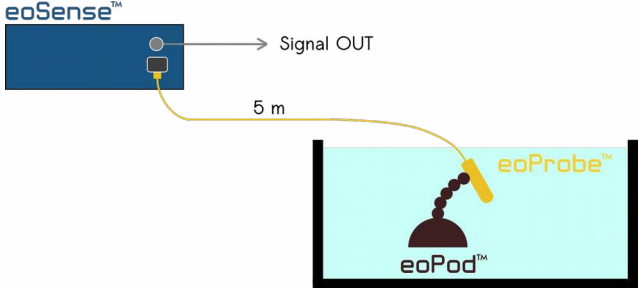
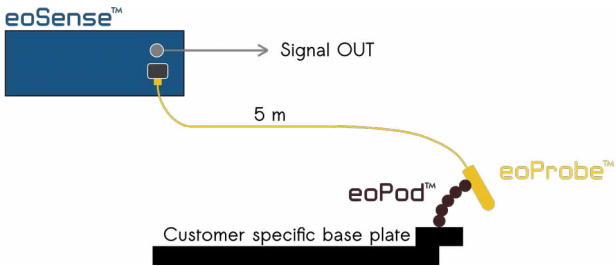
² Max. 8h per day in case operating conditions are harsher than storage conditions

PACKAGING INFORMATION

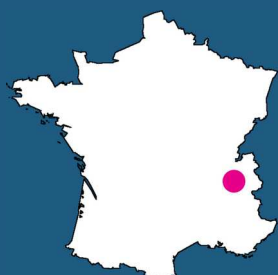
	Contents
eoPod™ holder	Delivered with an embedded bubble level & a three-probe holder
Transport case	Cardboard with protective foam (W x D x H = 185 x 165 x 105 mm - Weight: 170 g)
Other parts	1 screwdriver
User guide	cf. eoSystem User Guide PDF file GU-eoSystem

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COMPATIBLE DEVICES & ACCESSORIES

	Device-related data sheet	Use	Outline schematic
E-field probe eoProbe™	FT20-eoProbe-05.pdf	Recommended setup in most cases	
		Immersed setup for measurements in phantoms	
		Customer-defined setup	

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