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Data Sheet

# RadiSense<sup>®</sup> 26

Electric Field Probe

Models - RSS2026S | RSS2026H

Accurate

High Speed

Robust



[raditeq.com](http://raditeq.com)

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# RadiSense® 26

Models - RSS2026S - RSS2026H

## The high frequency E-field probe

Accurate High Speed Robust

Raditeq, the inventor of the first laser powered E-field probe in the world provides a full range of accurate and fast laser powered probes from 9 kHz to 26 GHz. With their long experience and extensive knowledge on laser power technology and field probe measurement technology, the RadiSense® probes provide the most reliable, high quality range of laser powered E-field probes in the market, with unprecedented measurement uncertainty.

**Wide range** - The RadiSense® 26 has a wide frequency range from 10 MHz to 26 GHz allowing accurate isotropic E field strength measurements within a range from 0.5 V/m to 1000 V/m. This wide range makes the RadiSense® 26 ideal for EMC Automotive, Military/Aerospace and CE marking applications.

**Two versions** - The RadiSense® 26 is available in two versions: The RSS2026S version provides the most accurate frequency response and isotropy, with a maximum measurement speed of 100 measurements/second (individual X-Y-Z axis + isotropic value). The model RSS2026H has an increased measurement speed of 1000 measurements/second at the cost of a slightly higher uncertainty, intended for applications where speed is more important, like mode stir / reverberation chambers.

**Modular** - The RadiSense® 26 is intended to be used in combination with the RadiCentre modular test system, which is available as a 1-slot (RadiCentre Slim), 2-slot (RadiCentre) or 7-slot (RadiCentre Pro). The probe is connected to the laser power plug-in card (model LPS2001B) with FC/ST dual fiber links. The plug-in card provides the laser power source and bi-directional communication to the probe. The fiber optic extension cable between the RadiSense® 26 probe and the LPS2001B plug-in card is standard available at three different lengths (10, 20 or 30 m). Other lengths to a maximum of 100 m are available on request.

**Internal calibration data** - The linearity adjustment data, by default is stored inside the probe. In addition, the frequency response calibration data of the X-Y-Z axis can be stored as user correction data inside the probe. As a result, there is no need to apply frequency dependent corrections for individual axis' in software anymore. This feature results in a high accuracy and ease-of-use.

**Software support** -The RadiSense® probes are supported by RadiMation and RadiMation Pro, automated EMC test and measurement software packages. The RadiSense® probes can also be controlled with most other brands of commercial EMC test software packages, like ETS Lindgren TILE and R&S EMC32/Elektra.

# RadiSense® 26 Specifications

Model	RSS2026S	RSS2026H
Field measurement range	0.5 to 1000 V/m	
Max input level before damage	2000 V/m	
Frequency range	10 MHz to 26 GHz	
Resolution	0.001 V/m < 0 - 10 V/m 0.01 V/m < 10 - 100 V/m 0.1 V/m > 100 - 1000 V/m	
<b>Accuracy</b>		
Frequency response	± 1 dB	-2 dB to + 5 dB
Isotropy	± 0.5 dB @ 1 GHz	
Measurement speed (x, y, z and E-Tot)	100 measurements/s	1000 measurements/s
Linearity	± 0.5 dB ± 0.5 V/m	
<b>Dimensions</b>		
Shape of housing	stalk probe	
Electrical measuring volume	1 cm <sup>3</sup>	
Total length including body	30 cm (11.81 in)	
Number of antennas	3 dipoles	
<b>Environmental conditions</b>		
Temperature range (operating)	0 °C to 40 °C (32 °F to 104 °F)	
Relative humidity (operating)	10 % to 90 % RH (non-condensing)	
<b>Calibration &amp; Power consumption</b>		
Factory adjustment data	Internally stored, ISO17025 calibration (RSS2026S only)	
Accredited calibration (2)	Traceable, accredited calibration with certificate (optional)	
Optical LASER power	Max. 0.5 Watt at aperture @ 808 nm	
<b>Fibre connection</b>		
Laser fibre optic connector	FC/PC - 200/230 µm fibre	
Data fibre optic connector	ST/PC - 200/230 µm fibre	
Extension fibre length (3)	Standard lengths 10m, 20m or 30m. Maximum 100m	
<b>Safety</b>		
Interlock	External interlock & closed loop safety system	
Warranty (4)	Three years	

<sup>1)</sup> Isotropy is the maximum deviation from the geometric mean as defined by IEEE 1309-2013

<sup>2)</sup> This calibration can be stored inside the probe as user correction data

<sup>3)</sup> The probe set is delivered with a 10 m extension fibre. Other fibre length to maximum 100 m available on request

<sup>4)</sup> Standard warranty is 1 year. After you register your new Raditeq product two (2) years of warranty will be added for free.  
Registration can be done at: [www.raditeq.com](http://www.raditeq.com)

