

電界強度計 EFS-100 / EFS-10 / EFS-5



主な特徴

- 極小サイズ
- ファイバー・オプティック・リンクでのPC接続
- 優れた等方性(0.3 dB typical)
- 周波数レンジ: 5KHz-9.25GHz (*EFS-5)
- 電界強度1.5V/m-1500V/m (*EFS-5)
- バッテリー駆動最長80時間動作可能

Technical specifications	EFS-100	EFS-10	EFS-5
Frequency range	100 KHz - 9.25 GHz	10 KHz - 9.25 GHz	5 KHz - 9.25 GHz
Flatness	1 - 150 MHz: 0.8 dB 0.5 - 6 GHz: 1.6 dB	0.1 - 150 MHz: 0.4 dB 0.05 - 6 GHz: 1.6 dB	0.05 - 150 MHz: 0.4 dB 0.05 - 6000 MHz: 1.6 dB
With frequency correction OFF	0.3 - 7.5 GHz: 3.2 dB	0.03 - 7.5 GHz: 3.2 dB	0.03 - 7500 MHz: 3.2 dB
With frequency correction ON	0.3 - 7.5 GHz: 0.4 dB	0.05 - 7.5 GHz: 0.4 dB	0.05 - 7500 MHz: 0.4 dB
Dynamic range (single range)	0.14 - 140 V/m (60 dB)	0.5 - 500 V/m (60 dB)	1.5 - 1500 V/m (60 dB)
Linearity	0.4dB@50MHz/0.3-100 V/m	0.4dB@50MHz/1-500V/m	0.4dB@50MHz/2.5-1000V/m
Resolution	0.01 V/m		
Sensors	6 monopoles		
Isotropy	0.5 dB (0.3 dB typical) (@ 50 MHz)		
Overload	>300 V/m	>1000 V/m	>3000 V/m
Measured data X-Y-Z axis	sampling simultaneous on X-Y-Z axis		
Sampling rate	22 S/s to 0.03 S/s, depending on filter setting		
Digital filter	2.3 to 28 Hz, low-pass, pre-settable		
Internal battery	3 V - 5 mAh, rechargeable Li-Mn		
Operation time	80 hours @ 0.4 S/sec., 28 Hz filter 60 hours @ 5 S/sec., 28 Hz filter		
Recharging time	48 hours for full operation time		
Internal data memory	serial number, calibration date, calibration factors, firmware version		
Communication	bidirectional fiber optic link		
Fiber optic connector	HFBR-0500		
Fiber optic length	10 m standard (20/40 m optional)		
Fiber optic to PC connection	fiber optic to RS232 converter, RS232 to USB converter		
PC Software	included (display of field, temperature and battery voltage measurements, setting of filters, sampling rate, frequency)		
Operating temperature	-10° C ÷ +50° C		
Temperature reading	0.1° C resolution		
Battery voltage reading	10mV resolution		
Dimensions	53 mm overall, (body: 17 mm diameter, sensor: 17 mm)		
Weight	25 g, including 1 m fiber optic pigtail		
Probe mount	20 UNC female		
Included accessories	10m fiber optic cable, optical/RS232 adapter + RS232/USB adapter, software, battery charger		
Optional accessories	20m fiber optic cable, order-no.: EFS-OF20 40m fiber optic cable, order-no.: EFS-OF40		

New !**FRANKONIA社****EMS用電界プローブ EFS-300/ EFS-500**

Technical specifications	EFS-300	EFS-500
Frequency range	300 KHz - 18 GHz	300 KHz - 26.5 GHz
Flatness	0.3 - 18000 MHz: 0.4 dB	0.1 - 18000 MHz: 1.8 dB
With frequency correction OFF	3 - 8200 MHz: 1.4 dB 1 - 12000 MHz: 2.4 dB	3 - 23000 MHz: 3.2 dB
With frequency correction ON	0.6 - 18000 MHz: 3.8 dB	0.3 - 26500 MHz: 0.4 dB
Dynamic range (single range)	0.17 - 170 V/m (60 dB)	0.4 - 800 V/m (66 dB)
Linearity	0.4 dB @ 50 MHz / 0.3-170 V/m	0.4 dB @ 50 MHz / 0.8 - 800 V/m
Resolution	0.01 V/m	
Sensors	6 monopoles	
Isotropy	0.4 dB (0.2 dB typical) (@ 50 MHz)	
Overload	350 V/m	1600 V/m
Measured data X-Y-Z axis	sampling simultaneous on X-Y-Z axis	
Sampling rate	22 S/s to 0.03 S/s, depending on filter setting	
Digital filter	2.3 to 28 Hz, low-pass, pre-settable	
Internal battery	3 V - 5 mAh, rechargeable Li-Mn	
Operation time	80 hours @ 0.4 S/sec., 28 Hz filter 60 hours @ 5 S/sec., 28 Hz filter	
Recharging time	48 hours for full operation time	
Internal data memory	serial number, calibration date, calibration factors, firmware version	
Communication	bidirectional fiber optic link	
Fiber optic connector	HFBR-0500	
Fiber optic length	10 m standard (20/40 m optional)	
Fiber optic to PC connection	fiber optic to RS232 converter, RS232 to USB converter	
PC Software	included (display of field, temperature and battery voltage measurements, setting of filters, sampling rate, frequency)	
Operating temperature	-10° C ÷ +50° C	
Temperature reading	0.1° C resolution	
Battery voltage reading	10mV resolution	
Dimensions	53 mm overall, (body: 17 mm diameter, sensor: 17 mm)	
Weight	25 g, including 1 m fiber optic pigtail	
Probe mount	20 UNC female	
Included accessories	10m fiber optic cable, optical/RS232 adapter + RS232/USB adapter, software, battery charger	
Optional accessories	20m fiber optic cable, order-no.: EFS-OF20	
	40m fiber optic cable, order-no.: EFS-OF40	



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EP-601 Probe



EP-600 Charger



AC Plug Adapter



Blue & Gray Fiber Optic Adapter



FO-EP600/10



8053-OC Optical/RS232 converter



USB-RS232 serial converter



Conical tripod support for EP-600



Mini Tripod



Carrying Case



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電界強度計 EFS-Laser 10KHz-6GHz



主な特徴

- レーザーパワー - 充電不要
- 極小サイズ
- 高解像度, 高速, 低ノイズ
- 周波数レンジ: 10KHz-6GHz
- 電界強度0.1V/m-10kV/m
- 広ダイナミックレンジ
- 連続リアルタイム・データ・ストリーミング
- PCコンピュータインターフェイス&ソフトウェア付き

Technical specifications	EFS-Laser
Frequency range	10 kHz - 6 GHz
Analog Rise Time	4 μ s
10kHz~100MHz low Bandwidth 10kHz~100MHz high	40ns
Bandwidth 100MHz~6GHz	25ns
Minimum Pulse Width	500ns
Burst Mode Streaming Mode	2 μ s
Resolution	< 0.01dB
Sampling Rate	2M Sample/s
Burst Mode Streaming Mode	> 500k Sample/s
Field Strength	
10kHz~100MHz	< 1v/M ~ > 10kV/m
100MHz~6GHz	< 0.1v/M ~ > 700V/m
Damage Level	
10kHz~100MHz	40kV/m
100MHz~6GHz	10kV/m
Field Sensor	
Isotropy, 900MHz	< 1dB
Amplitude Accuracy	
10kHz~10MHz (1.5V/m - 30V/m)	1.3dB
>10MHz~1GHz (1V/m - 80V/m)	1.5dB
>1GHz~8GHz (3V/m - 100V/m)	1.0dB
Linearity Error	< 0.1dB
Temperature Stability	0.1dB
Ambient Temperature	10°C ~ 40°C
Dimensions (W × D × H)	67 × 67 × 124mm

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Technical specifications	EFS-Laser
Frequency range	10 kHz - 6 GHz
Analog Rise Time	4 μ s
10kHz~100MHz low Bandwidth 10kHz~100MHz high	40ns
Bandwidth 100MHz~6GHz	25ns
Minimum Pulse Width	500ns
Burst Mode Streaming Mode	2 μ s
Resolution	< 0.01dB
Sampling Rate	2M Sample/s
Burst Mode Streaming Mode	> 500k Sample/s
Field Strength	
10kHz~100MHz	< 1v/M ~ > 10kV/m
100MHz~6GHz	< 0.1v/M ~ > 700V/m
Damage Level	
10kHz~100MHz	40kV/m
100MHz~6GHz	10kV/m
Field Sensor	
Isotropy, 900MHz	< 1dB
Amplitude Accuracy	
10kHz~10MHz (1.5V/m - 30V/m)	1.3dB
>10MHz~1GHz (1V/m - 80V/m)	1.5dB
>1GHz~8GHz (3V/m - 100V/m)	1.0dB
Linearity Error	< 0.1dB
Temperature Stability	0.1dB
Ambient Temperature	10°C ~ 40°C
Dimensions (W × D × H)	67 × 67 × 124mm
Computer-Interface	
PC Interface	USB2.0
Application Software	included
Trigger Output Level	3.3V CMOS
Burst Trigger Output Connector	BNC
Laser - Wavelength	850nm
Laser - Output Power	750mW
Laser - Shutdown Time	1ms
Fiber Optic Connector	FC/ST
Fiber Optic Cable Length	15m
Max. Fiber Optic Cable Length	100m (sold on request)
Input Voltage*	5V ± 5%
Input Current	< 2A
Ambient Temperature	10°C ~ 40°C
Dimensions (W × D × H)	483 × 43.5(1HE) × 120mm
*Power supply	included