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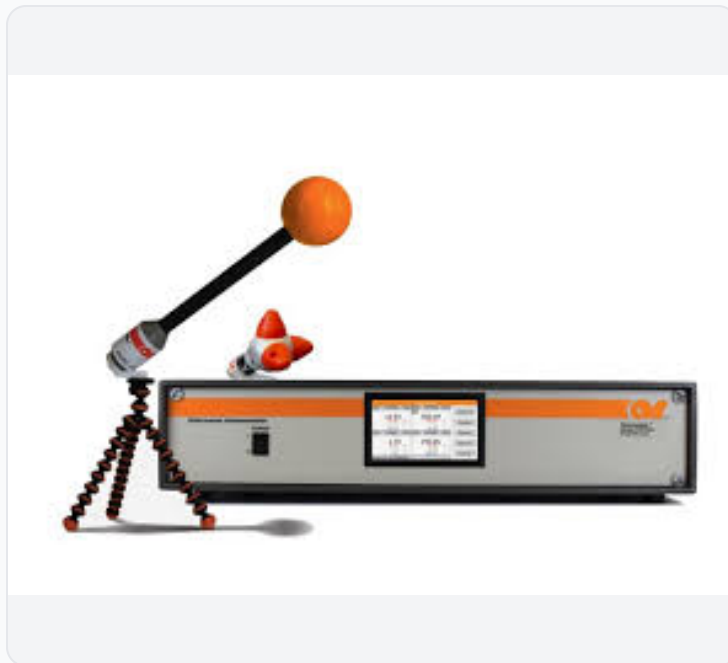
Data Sheet

August 14, 2026

AMPLIFIER RESEARCH

Amplifier Research FL8018/Kit

Amplifier Research EMI / EMC Test Receivers. Frequency Range: 20 MHz – 18 GHz, Dynamic Range: > 54 dB, Resolution: < 0.1 dB.



MODEL

**Amplifier Research
FL8018/Kit**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

FL8018/Kit

LISTING

<https://aumictechlabs.com/products/fl8018-kit-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Amplifier Research FL8018/Kit is a laser-powered isotropic electric field probe system engineered for EMC radiated immunity testing across automotive, military, and commercial environments. The kit measures continuous wave (CW), amplitude-modulated, and pulsed electric fields from 20 MHz to 18 GHz with a single-range measurement capability of 2–1000 V/m. Fiber-optic power delivery eliminates battery dependency, ensures continuous operation, and provides excellent RF isolation for the control system. The probe features separable X-Y-Z axes with ± 0.5 dB isotropic deviation and supports a 2 Msps sample rate. ISO 17025 calibration and correction factors enable automated reading correction when paired with compatible field monitors. Technical Specifications Frequency Range: 20 MHz – 18 GHz Field Strength Range: 2 – 1000 V/m Dynamic Range: > 54 dB Resolution: < 0.1 dB Isotropic Deviation: ± 0.5 dB (typical at ortho angle, e.g., @ 100 MHz) Linearity Error: ± 0.5 dB Temperature Stability: ± 0.5 dB CW Damage Level: 1200 V/m Pulse Damage Level: 6 kV/m Minimum Pulse Width: 2 μ s Sample Rate: 2 Msps Operating Temperature: 10° to +40° C Storage Temperature: –20° to +50° C Probe Dimensions:

278 mm × 65 mm × 65 mm Sensor Head Diameter: 65 mm Probe Weight: 227 g AC Power Input: 90–260 VAC, 50/60 Hz

Key Features Laser-powered fiber-optic delivery eliminates batteries and enables extended field operation Separable tri-axial probe head for rapid axis rotation and measurement verification Integrated F18000 laser probe interface with IEEE-488 (GPIB), RS-232, USB 2.0, and Ethernet connectivity 20-meter fiber-optic extension cable set for remote measurement stations ISO 17025-accredited calibration with loadable correction factors Compact probe head (65 mm diameter) for deployment in confined test volumes

Typical Applications EMC radiated immunity testing per automotive and military standards Multiaxis field mapping in anechoic chambers and reverberation chambers Pulsed and modulated field measurement in high-power RF environments Real-time field strength monitoring with automated correction

Compatibility & Integration Designed for integration with the Amplifier Research FM7004A Field Monitor (sold separately) for automatic probe reading correction. Kit includes carrying case, mini-tripod with ortho-angle mount, RS-232 to USB adapter, and complete documentation on AR USB drive.

FL8018KIT Characteristics / Specifications

PARAMETER	VALUE
Frequency Range	20 MHz to 18 GHz
Field Strength Range	2 to 1000 V/m
Dynamic Range	greater than 54 dB
Resolution	less than 0.1 dB
Axis Type	SeparableXYZMeasurement Types: CW AM Pulse
Dimensions WxHxL	278 × 65 × 65 mm
Sensor Head Diameter	65 mm
Weight	227 g
Operating Temperature	10 C to 40 C
Storage Temperature	minus 20 C to 50 C
Series Family	FL8000
Power Delivery	Laser power over fiber
Interface Class	FI8000 laser probe interface class
Calibration Class	ISO 17025 accredited factors class
Form Factor	Handheld isotropic field probe
Fiber Cable Class	Multi meter fiber optic set class
Export Classification Class	Commercial EMC probe class
Ingress Use	Shielded room and chamber monitoring class
Linearity Class	Probe linearity per calibration certificate
Isotropic Response Class	Three axis isotropic class
Battery Requirement	None when laser powered

FL8018KIT Specifications

PARAMETER	VALUE
Laser power over fiber continuous operation	20 MHz to 18 GHz coverage
Separable X Y Z axes	CW AM pulse measurement types
Technical Specifications	Frequency Range: 20 MHz to 18 GHz
Notes	From Amplifier Research FL8018/KIT electric field laser-powered probe specification tables.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 20 C to 50 C
Operating temperature	10 C to 40 C
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Series Family	FL8000
Power Delivery	Laser power over fiber
Interface Class	FI8000 laser probe interface class
Calibration Class	ISO 17025 accredited factors class
Form Factor	Handheld isotropic field probe
Fiber Cable Class	Multi meter fiber optic set class
Export Classification Class	Commercial EMC probe class
Ingress Use	Shielded room and chamber monitoring class
Linearity Class	Probe linearity per calibration certificate
Isotropic Response Class	Three axis isotropic class
Battery Requirement	None when laser powered Notes From Amplifier Research FL8018/KIT electric field laser-powered probe specification tables.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

specifications list greater than 54 dB dynamic range, less than 0.1 dB resolution, separable X-Y-Z axes, and CW/AM/pulse measurement types for EMC radiated immunity.	
Applications	
EMC radiated immunity field monitoring, multi-axis E-field measurements to 18 GHz, and continuous laser-powered probing without battery swaps.	
Key Features	
Laser power over fiber continuous operation	
20 MHz to 18 GHz coverage	
2 to 1000 V/m single range	
SeparableXYZaxes	
CW AM pulse measurement types	
Technical Specifications	
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PARAMETER	VALUE
Battery Requirement	None when laser powered

Notes
From Amplifier Research FL8018/KIT electric field laser-powered probe specification tables.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.