



Shown with optional 3 Foot Tripod

Standard Pole Mount installation

Operation

The EFM-100 Electric Field Mill short-range sensor (<20 miles/32 km) constantly monitors for lightning and activates graphical display alerts on a computer or laptop when lightning is detected. There are two high electric field alarms, and lightning distance ranges that are completely customizable to alert you when there is nearby lightning. The software will also reset back to a green All Clear state when no lightning has been detected within the configured time period and when the electric field levels fall below their set levels.

Electric Field Monitor Software

The EFM-100 Electric Field Monitor software (included) displays a real time graph of electrical field in the atmosphere, as well as the lightning strike distances up to 24 miles/38km away. Distance ranges are completely customizable as well as the high field alarm ranges to allow for a wide variety of setups and operating procedures. Data sharing option in the software allows remote access to data either through the internet or a local network.

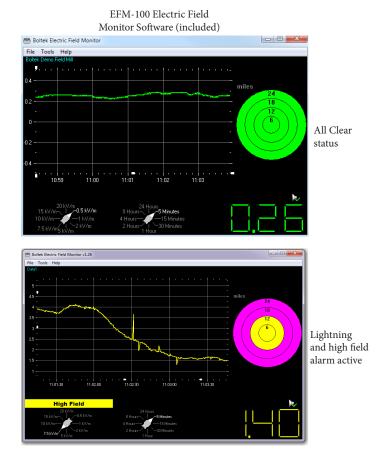
Setup

The EFM-100 is best suited for installations when it is placed away from high foot traffic areas, and placed 2 to 3 feet above the ground or a roof. With the inverted kit, it comes with either a pole mount option or a tripod for quick and easy setup as well as an inverted mounting kit to greatly reduce the number of false strikes during precipitation.

Short Range Systems

EFM-100 Electric Field Mill

- ☑ Field proven with systems installed for over 10 years
- ☑ High Accuracy 24 miles / 38 km range for local activity
- ☑ 2 High Field alarm levels (Red and Yellow)
- ☑ All Clear display (Green)
- ☑ Fully configurable Alarm distances, durations and High Electric field levels
- ☑ Display up to four electric field mills simultaneously
- ☑ Text messaging and email alert notification capability
- ☑ Network data sharing for remote viewing
- ☑ EFM-100 Monitor software shows current alarm state and electrical field level in real time
- ☑ USB or RS232 adapter for optically isolated data output
- ☑ Optional RS-485 output for transmitting status messages to other equipment and/or to a distant Status Monitor computer
- ☑ Daily data and log files for historical viewing
- ☑ Optional Relay Output Module for activating external equipment



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EFM-100 Electric Field Mill

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Alerts		Ordering Information	
High field alerts Strike distance: Electric field range: Typical range of interest	2 configurable levels (Red, Yellow) 0 - 24 miles / 0 - 38 km -20 kV/m to +20 kV/m -5 kV/m to +5 kV/m	EFM100-120V-100FT Kit	EFM-100 Electric Field Mill 120VAC 60Hz Power Supply 100 Feet (30m) Cable* Pole mount inverting kit*
Accuracy	5% +/- 0.05 kV/m		Pole mount inverting kit
Response time	0.1 seconds	EFM100-220V-100FT Kit EFM-100 Electric Field Mill 220VAC 50-60Hz Power Supply 100 Fact (20m) Cable*	
Software Display Indicators	One en dienteuwhen ne linktring is		100 Feet (30m) Cable*
All Clear (green)	Green display when no lightning is detected and electric field levels are below set alarm levels	*Additional mounting options and c	Pole mount inverting kit* able lengths available on request.
High Field Alert (yellow)	On when electric field level goes above configured high field level and below configured very high field level	CONNECTION DIAGRAM (RS485 EFM-100 shown, fiber optic output also available)	
Very High Field Alert (red)	On when electric field level goes above configured very high field level	Outdoor mounted ligh	
Lightning (purple)	On when lightning is detected	EF	M-100
Software Specifications			
Operating Sytem:	Microsoft Windows 8, 7, Vista, XP, 2000, NT	₽- ₁ _	
Communications			
Data Port RS-232 Format Resolution Analog Data	RS-232 (RS-485 option available) Delimited ASCII Sentences 9600 baud, 8N1 Digital output 0.01 kV/m Analog output infinite Differential 1V per kV/m		
EFM Data Connection	62.5/125 Multimode ST fiber optic		
Power			
Connector	2.1mm/5.5mm coaxial, screw terminals		
DC Power Supply AC Power Supply	11.5VDC - 14VDC, 0.5A 120VAC US plug or 120-240VAC international multi-plug wall adapter	Cat6 cable (up to 60m/200ft)	
Power Consumption	4 W	Connect To Ground	
Enclosure Material	Aluminum		
IP Rating	44	12V DC	EFM display software for Windows (PC not provided)
Dimensions	6.7" dia x 5" (17cm dia x 13cm)	power supply	R and some for many to a set of the set of t
Weight	2.2 lbs (1kg)		
Shipping Weight Shipping Dimensions	13 lbs (5.75kg) 26"x10"x11" (66cm x 25.4cm x 28cm)	EFA-21 power/ data module	
Environmental		1 International Action of the International Action of the	-
Operating Temperature Operating Humidity	-40 to 60 C / -40 to 140 F 0 to 99% non-condensing	USB ca	ble
Agency Approvals Warranty	CE, FCC, cULus, C-tick 1 Year	ADVISORY USE ONLY This equipment does not include self-test circuitry to	

This equipment does not include self-test circuitry to warn of loss of functionality. Additional measures should be in place to safeguard personnel or equipment.



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