

LF FIELD METER TECHNICAL SPECIFICATIONS

Product Description

The Elpas LF Field Meter is a battery-powered hand-held, magnetic field meter. The device employs an on-board 3-axis sensor and microprocessor to process and display representative amplitude values of the detected low frequency (125 KHz) flux density within the theoretical coverage area of a specific Elpas LF Exciter.

The device is designed for system integrators, field service or maintenance engineers that need to: identify and eliminate LF exciter signal overlap, reduce/expand signal penetration or just speedup the process of maximizing overall signal coverage.

The LF Field Meter is especially useful for identifying and isolating detrimental ambient noise (125 KHz) such as magnetic fields emanating from overlapping LF Exciters, HVAC compressors electric motors or metal barriers (such as ceiling tiles/signs/pillars/beams) that may be adversely distorting the coverage area of a LF Exciter.

The meter can also be used to verify the identification address of the specific LF Exciter whose magnetic field is undergoing evaluation.

Each LF Field Meter is shipped with one 9.0 volt transistor battery.



Technical Specifications

Electrical	
Field Range	125KHz, Low frequency electromagnetic fields
Power Source	Alkaline 9.0 volt transistor battery (Duracell MN1604 or equivalent)
Power Consumption	Less than 20mW (typical usage 50 hours)
Visual Display	3.5 digit Liquid Crystal display (LCD)
Power Range	To 60 dbμv
Displayed Values	< 10: No detected LF field or No ambient noise detected in environment
	10< Value < 200: Usable LF field detected
	10< Value < 250: Ambient noise detected
	200 >: Detected LF field over saturated
Green LED Indicator	Not Lit: No LF field/ambient noise detected
	Flashing: Meter set ID does not match Exciter ID
	Constant: Meter set ID matches Exciter ID
DIP Switch	Represents ID address of detected LF Exciter
General	
Construction	Polymer plastic (not waterproof)
Dimensions (H x W x D)	151mm x 82mm x 33mm (5.9 inches x 3.2 inches x 1.3 inches)
Weight	195 grams (6.8 ounces)
Temperature & Humidity Range	-10°C to 50°C (14°F to 122°F) 05% to 80% non-condensing
Warranty	1 year limited warranty (excluding battery)

Ordering Information

Part Number	Description
5-LFM00125	LF Field Meter

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About Visonic Technologies

Visonic Technologies, a fully owned subsidiary of Visonic, Ltd. (VSC.L) is a global leader in enterprise-class, active and passive RFID/ RTLS real-time visibility solutions. Distributed under the Elpas, SpiderAlert, VisAccess and EIRIS system names the company's products deliver personnel identification and safety; supply-chain logistics, asset protection and facility supervision.