

NFA Series

3D LF analysers with data logger



3D LF analysers	NFA 30M	NFA 400	NFA 1000
Frequency ranges			
Frequency range (from ... to)	16 Hz 32 kHz	5 Hz 400 kHz	5 Hz 1MHz
Frequency selective filter 16.6 50/60 100/120 150/180 Rest < 2kHz >2kHz	✓	✓	✓
Magnetic flux density			
Measuring range "M" in Nanotesla (alternatively displayed in Milligauss)	1 - 19999 nT (up to 400 µT upon request)		
Internal 3D sensor (isotropic point < 3cm ³) (pat. pend.)	✓	✓	✓
Electric field strength			
Measurement range in Volt per meter (V/m) Optional range extension upon request	-	0.1 to 1,999 V/m	
Internal potential-free 3D-E-field sensor (Patent DE 10 2007 025 911)			✓
Internal potential-free 1D-E-field sensor in Y-direction		✓	
Internal sensor bound to earth potential in Y-direction (TCO Recommendation)		✓	✓
Input for the measurement of capacitive body coupling acc. to SBM (hand electrode opt.)		1 - 19,990 mV	
Optional sensors ("CH 4")			
TCO compliant E-field sensor (diameter 30 cm, mountable)		opt.	opt.
Magnetostatic sensor		opt.	opt.
Electrostatic sensor		opt.	opt.
Input for AC or DC signals (for instance for the connection of an HF analyser)	✓	✓	✓
Signal analysis			
True RMS	✓	✓	✓
True RMS hold / Peak hold	✓	✓	✓
Peak value, broad band (true peak of the wave)	✓	✓	✓
Display features			
Large LC display (4 digits), also easy to read from afar	✓	✓	✓
Frequency indication by differently coloured LEDs or by numerical value		✓	✓
Acoustic signal (Geiger-counter-effect, volume adjustable)		✓	✓
Internal data logger			
Sampling rate: 110,000 samples/sec., maxima are saved up to 10 times/sec onto the SDHC card. Simultaneous and frequency selective for XYZ and CH4, i.e. without "blind spots".	✓	✓	✓
Voice recorder		✓	✓
Configuration and evaluation software for PC: Innovative graphical and statistical functions, frequency- and axis-specific	✓	✓	✓
Instrument "lockable" to assure safe recordings in the case of unauthorised access	✓	✓	✓
Scope of supply and optional accessories			
Internal Li-Ion battery pack (for up to 48 h "full speed"-recordings, NFA 30M more than 48h)	✓	✓	✓
AC-adaptor for quick loading or for mains supply (unlimited recordings possible in this case)	✓	✓	✓
Terminal nut for the stand integrated at the bottom of the housing		✓	✓
Grounding cable		✓	✓
Floating potential telescopic rod (PM4s) or instrument holder (PM1)		opt.	opt.
Compact plastic transport case K5	✓	✓	✓