



NHT 310

ELECTROMAGNETIC FIELD METER: DC÷40 GHz

Key features:

- Broadband measurement capability from DC up to 40 GHz utilizing a range of probes
- Interchangeable probes for measuring electric, magnetic and electromagnetic fields
- Shell in aluminum alloy
- GPS receiver and temperature sensor available on board
- Battery autonomy over 70 hours
- Multiple monitoring capability
- Over 24 hours of recording time (step 5s)
- Transflective backlit screen
- MicroLink software for displaying measurements and data
- Fiber optic communication (up to 40mt)
- Firmware updating directly by user



Information subject to change without prior notice

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Description:

The NHT 310 meter is capable of measuring a wide frequency of electric, magnetic and electromagnetic fields. By selecting and inserting the appropriate probe the instrument covers all frequencies from DC to millimeter waves.

Typical Applications:

DIRECTIVE 2013/35/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 June 2013 on the minimum health and safety requirements regarding the exposure of workers to the risks arising from physical agents (electromagnetic fields) (20th individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC) and repealing Directive 2004/40/CE:

- Industrial ovens, welding systems, RF heaters, drying plants, galvanic and metalworking processes
- Diathermy equipment and RF generators for medical devices, magnetic resonance machines
- Power plants and related maintenance and control systems
- Diagnostic machines (imaging and NMR)
- Measuring systems for railway and land transports

Monitoring and control of population exposure in public and private environments:

- High power lines
- Power plants and electricity transformation stations
- Broadcasting and radio base stations
- Telecommunication systems, such as radio base stations for telephony, satellite communication apparatus, broadcasting transceivers, Wi-Fi, Wi-Max and LTE systems

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Multiple monitoring:

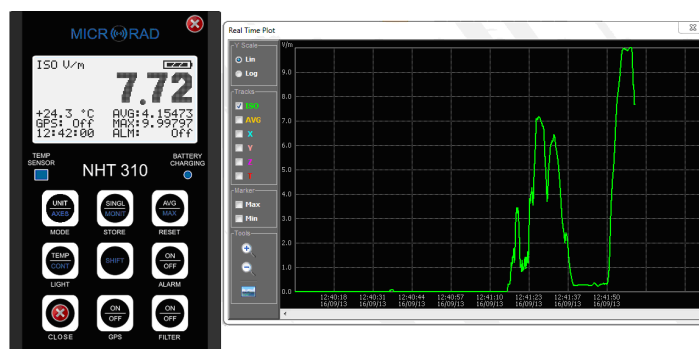
The instrument allows the user to perform continuous monitoring activities and to periodically store the measured values by activating a START / STOP function.

The user can store inside the meter memory up to 8 monitoring sequences before downloading the data to a PC. A maximum of 21,504 samples can be recorded.

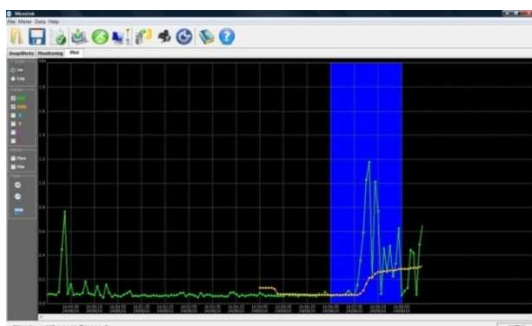
MicroLink software:

The MicroLink software supplied with the NHT 310 instrument has dual functionality.

- It allows the user to operate the NHT unit remotely by means of a PC to which it is connected via a fiber optic cable. This function eliminates disturbs caused by human presence in the area where the probe is located.
- It also allows the NHT device to download stored data, graphics and tabular reports of the acquired readings. The data can be exported to Microsoft Excel™ for further elaboration if required by the operator.



The user can, by way of a mouse, highlight a portion of the graph and automatically focus on the corresponding readings or measurements within that area in a tabular format.



Time	ISO U/m	Temp (°C)	GPS Lat	GPS Lon	Mag (Gauss)	Mag (mT)	Mag (µT)	Mag (nT)	Mag (pT)	Mag (fT)	Mag (aT)	Mag (fT)	Mag (aT)	Mag (fT)	Mag (aT)	Mag (fT)	Mag (aT)	Mag (fT)	Mag (aT)
12:40:10	7.72	24.3	41.5473	9.99757															
12:40:13	7.72	24.3	41.5473	9.99757															
12:40:44	7.72	24.3	41.5473	9.99757															
12:40:57	7.72	24.3	41.5473	9.99757															
12:41:10	7.72	24.3	41.5473	9.99757															
12:41:23	7.72	24.3	41.5473	9.99757															
12:41:37	7.72	24.3	41.5473	9.99757															
12:41:50	7.72	24.3	41.5473	9.99757															

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Technical specification:

FREQUENCIES	
Frequency range	DC to 40GHz using different probes B, E, H
DISPLAY	
Type	Transflective LCD monochrome backlit
Size	2.8" 128 x 64 pixel
MEASUREMENT FUNCTIONS	
Measurement units	V/m, A/m, W/m ² , mW/cm ² , µT, mT (depending on probe)
Display range	from 0,00001 to 999'999
Result types	rms isotropic value (ISO) and X, Y, Z components, maximum value (MAX), time average (AVG), space average (SPT), median (calculated from microLink software)
Time average	Time window length selectable from 4sec to 192min with 1 min step Post processing using 24H time window with MicroLink software
Space average	RMS average of the value stored as single acquisition
STORAGE MEMORY	
Single acquisition	432 non-volatile values
Monitoring	8 sequences non-volatile (21.504 total values)
INTERFACES	
Optical interfaces	Serial, full duplex, 10 Mbps
Probe interface	Plug-and-play auto detection, LEMO™ connector
GPS	
Integrated receiver	Sensibility -163dBm, 48 channels, L1 C/A code, update rate 4Hz
GENERAL CHARACTERISTICS	
Recommended calibration interval	24 months
Battery	Alkaline or rechargeable NiMH, 4 x AA size (Mignon), 2800 mAh
Operation time	> 72 hours (backlight and GPS off).
Charging time	4 hours
Operating temperature	-10 °C to +50 °C
Storage temperature	-20 °C to +70°C
Humidity	5 to 95%, non-condensing
Size (h x w x d)	183 x 92 x 38 mm (without probe)
Weight	700 g (including batteries without probe)
Country of origin	Italy

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NHT 310 kit:

- NHT 310 Meter
- Optical / USB Adapter
- Fiber Optic Cable (10mt)
- AC/DC Power Supply
- Calibration certificate ISO 9001÷2008
Standard IEEE 1309-2013
- User Manual

Optional accessories:

- Rigid Case
- Wooden Tripod (1-2 m), including
travelling case
- Accredia Calibration certificate ISO 17025



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