HD2011NMT

Noise Monitoring Terminal with remote control

For short-medium term or permanent unattended outdoor installations
HD2011NMT is designed to be part of a network of noise monitoring terminals or a stand alone unit. Each HD2011NMT is able to work unattended in permanent, semipermanent and portable installations (depending on version). Each unit or the whole network can be remotely controlled and fully managed by NS4 “monitor” application software. Noise and meteo data can be acquired, recorded, displayed and transmitted remotely.

**Application Fields**

- Environmental noise monitoring
- Construction sites noise monitoring
- Workplaces monitoring
- Industrial noise
- Transportation noise
- Noise mapping
- Noise barrier verification
- City noise
- Airport noise
- Short-medium term noise compliant investigations
- Combined noise and meteo monitoring

**Advantages / Benefits**

- Easy terminal installation and startup
- Administration and user full control of system and data from your office
- Multi-terminal and multi-client applications for data sharing among controllers, consultants and project leaders or even public
- Automatic data storage in a remote ftp site (Delta OHM or user FTP)
- Type approved Class1 or Class2 IEC 61672 noise measurements
- Real time spectral analysis according to IEC 61260
- Continuous and scheduled acquisitions
- Integrated electrical calibration for easy system periodic check
- Very fast measurement with acquisition down to 1/32 sec
- Advanced trigger and alarm function on noise events and meteo data
- Local alarm (relais activation) based on noise and/or meteo data exceedences
- Automatic status email notification: battery, storage calibration deviation, triggers and alarms
- Real time data streaming capabilities
**Dedicated for Delta OHM Class 1 or Class 2 Sound level meters according to IEC 61672 HD 2110L - HD 2010UC/A - HD 2010UC**

**Feet for rapid on site system positioning and short term installations**

**Input for direct connection of meteorological sensors for the measurement of temperature and relative humidity, wind speed, precipitations.**

**LiFePO4* internal rechargeable battery to avoid loss of data on the event of AC power interruption. Up to 7 days uninterrupted noise measurement on lithium batteries**

**Local storage to avoid data loss in case of bad wireless communication**

**Connections status and battery LEDs for onsite check**

**Rugged & light housing with IP65 protection**

**Handle for easy transportation**

**Easy onsite power on & installation**

**Connections status and battery LEDs for onsite check**

**HDWME outdoor microphone with weather protection**

**GSM antenna**

**Version** | **Box version** | **Suitcase version**
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**Monitoring** | **Medium-long term** | **Short term**
**Precision class** | cl.1 or cl.2* (IEC61672) | 
**Parameters** | Leq, Lp, LN, Lpk | 
**Freqanalysis** | 1/3 oct. up to 20KHz* | 
**Statistical analysis** | Percentile levels and/or full statistics | 
**Logging Resolution** | From 1/32s* up to 1h | 
**Automatic calibration** | CIC 104dB 1KHz | 
**Localization** | GPS module* | 
**Communication** | 3G/GPRS TCP/IP | 
**Data Storage** | Delta Ohm FTP or user FTP | 
**Enclosure Protection** | IP 65 | IP 67 |
**Exceedence Alarms** | e-mail + Real time | e-mail |
**Power* | Batteries, mains or solar | Batteries/Mains |
**Battery operation** | 48h or 7days | 
**Solar panel operation** | Up to 10days without sunlight | n/a |
**Dimension** | 500x420x210 mm | 550x420x260 mm (trolley type) |
**Management software** | NS4 “monitor” | 
**Analysis software** | NS2A and NS5 | 
**Microphone Mast** | Up to 4 mt height | 

*depending on model of SLM installed and/or options purchased
**Application Software**

- A dashboard is available for each terminal providing status information: battery charge, storage space, logging mode and local time.
- Up to 12 broadband parameters + 1/3oct + statistics.*
- Parallel frequency weighting and time constants.
- Datalogging with differentiated time periods from 1/32s* to 1h (short time history, time history, report).
- Continuous, single or repeated interval logging mode (SCHEDULER).
- Easy terminal setup - quick and reliable data access.
- Automated e-mail alerts and real-time monitoring functions for events detection.
- Access to data and setup from any location around the world.
- Configurable remote calibration.
- Customizable terminal setup.

* depending on SLMs model installed and/or options purchased.

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**Delta OHM**

**Application Software**

- Portable NMT
- Suitcase version

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**FTP STORAGE**

(also user FTP)

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**3G**

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**HARDWARE**

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**ALARMS**

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**@EMAIL**

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**ALARM**

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**E-MAIL**

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**3G**

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**APPLICATION SERVER**

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**Box version**

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**INTERNET**

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**connection**

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**3G**

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**APPLICATION SERVER**

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**E-MAIL**

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**ALARM**

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**FTP**

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**STORAGE**

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**CLIENT PC WITH NS4S MODULE**

(slave monitor)

Only remote display

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**REMOTE MANAGEMENT AND DISPLAY**

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**CLIENT PC WITH NS4 MODULE**

(Master monitor)

Remote management and display

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**NS4 "Monitor" real-time logging and display**

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* depending on SLMs model installed and/or options purchased.