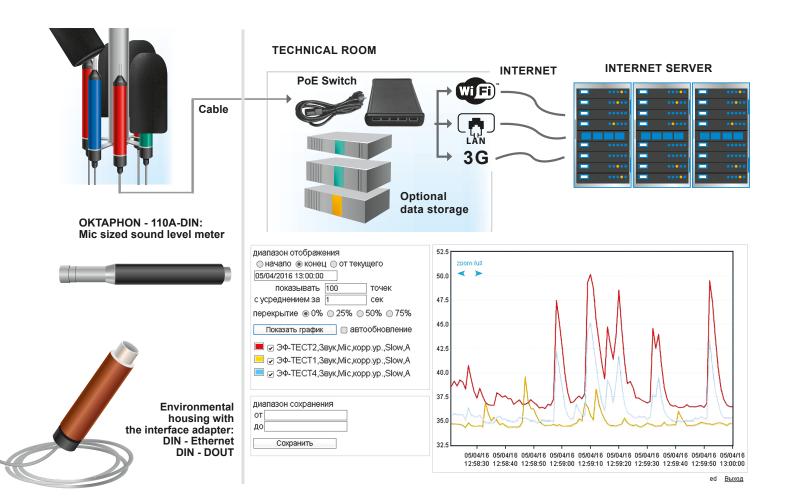# Oktaphone-110M
Noise Monitoring Kit

OKTAPHONE-110M allows one for building noise monitoring terminals (NMTs) to make continuous long-term noise monitoring and transfer measured data to a remote monitoring server through internet. The kit may also include a special computer (optional) placed in the vicinity of the NMT to archive the measured data.

TECHNICAL ROOM

PoE Switch

INTERNET

INTERNET SERVER

Wi Fi

LAN

3G

Optional
data storage

Cable

OKTAPHON - 110A-DIN:
Mic sized sound level meter

Environmental
housing with
the interface adapter:
DIN - Ethernet
DIN - DOUT

диапазон отображения
○ начало ● конец ○ от текущего
05/04/2016 13:00:00
показывать 100 точек
с усреднением за 1 сек
перекрытие ● 0% ○ 25% ○ 50% ○ 75%
Показать график ☐ автообновление
☑ ЭФ-ТЕСТ2,Звук,Mic,корр.ур.,Slow,A
☑ ЭФ-ТЕСТ1,Звук,Mic,корр.ур.,Slow,A
☑ ЭФ-ТЕСТ4,Звук,Mic,корр.ур.,Slow,A

диапазон сохранения
от
до
Сохранить

zoom full
◄ ►

52.5
50.0
47.5
45.0
42.5
40.0
37.5
35.0
32.5

05/04/16 12:58:30 | 05/04/16 12:58:40 | 05/04/16 12:58:50 | 05/04/16 12:59:00 | 05/04/16 12:59:10 | 05/04/16 12:59:20 | 05/04/16 12:59:30 | 05/04/16 12:59:40 | 05/04/16 12:59:50 | 05/04/16 13:00:00

ed Выход

Principle of Operation

Digital transducers **OKTAPHONE-110A-DIN** are installed in the environmental protective unit EPS-ETH-04 and are placed at the measurement position.

For reliable long-term monitoring (more than 24 hrs), it is strongly recommended to use 3 transducers simultaneously at each measurement outdoor position.

The EPS-ETH-04 protective unit converts the digital data flow from the OKTAPHONE-110A-DIN to a format compatible with the local computer network (Ethernet), and is connected to an external PoE injector (POW-ETH-05) with a long (up to 50 m) cable; the PoE injector is to be placed in a room with the controlled environmental conditions.

The POW-ETH-05 can handle from 1 to 4 OKTAPHONE-110A-DIN transducers, and have additional port for connecting an external computer.

In order to transfer data flows to internet, the user can just connect the PoE injector to any suitable router (the end-user is supposed to select the internet provider and the internet router on his own). By default, the measured data are transferred to the customer account at the monitoring server *monit.octava.info* (protected by password), which has tools for the data presentation and download.

OKTAPHONE-110M KIT

1. Digital Transducer (sound level meter) OKTAPHONE-110A-DIN
(from 1 to 3 units).
- provides precision measurements of noise as class 1 sound level meter and octave band analyzer (GOST 17187-2010, IEC 61672-1, GOST R 8.714-2010, IEC 61260). The sound level meter conforms to the standards requirements for operational temperature range from -10ºC to +40ºC, and survives influence of temperatures down to -30ºC and up to +50ºC

2. Protective unit EPS-ETH-04 (one per each OKTAPHONE-110A-DIN).
Supplied with a windscreen.

3. Communication unit POW-ETH-05 (one per the kit)
The unit powers the digital transducers (up to 4 simultaneously) through Ethernet, and transfer the data flows of the transducers to internet or to an external computer (or both).

4. Software ETH2DIN_UTIL
The software ETH2DIN_UTIL is used to set up the EPS-ETH-04 units. The software is installed at an external computer to be connected to the NMTs through the POW-ETH-05 communication unit.

5. Remote data internet server (optional)
The remote server monit.octava.info allows the user for automatic data storage through internet, and grants the registered customers access to the data.

6. Display unit EcoTerminal (optional)
The display unit is used for stand-alone operation of the OKTAPHONE-110A-DIN sound level meter, and for in situ calibration of the transducers.

7. Industrial PC (optional)
The external computer may be connected to the digital transducers OKTAPHONE-110A-DIN through the POW-ETH-05 communication unit to provide stand-alone operation of the noise monitoring system without internet access.

8. Other means that should be provided by the end-user on his own:
- Access to internet or to a local computer network,
- A.C. power (220V AC),
- Communication cables (twisted pair UTP-5e) and the places for their mounting,
- technological holes, mounting booms, equipment boxes.