

## “Diogen-24/24” - two – regime seismograph

*Powerful yet portable – all you need in one case*



The “Diogen-24/24” can be applied as one of seismic modules of system and it’s successfully used for refraction or reflection, downhole or VSP, earthquake monitoring.

### Features

- Universal seismograph: engineering researches, depth to bedrock, **hydrologic** investigations
- Reflection
- Refraction
- Sub-bottom profiling with use of special pulse sources
- Earthquake monitoring synchronizes with GPS clock
- Interface – USB 2.0 (notebook, PC)
- Testing bad geophones, cables (built-in)
- Built-in test oscillator
- The program analyzer of a spectrum of the written down signals

### “Diogen-24/24” specifications

Channels	24
HPF	0.5; 5.0; 100 Hz (12dB/octave)
Notch	50 Hz, with the 40 dB rejection bandwidth 5% of center frequency
A/D Conversion	24 bit result using sigma-delta converters
Dynamic Range, dB	120
Bandwidth	0 ÷ 4000 Hz
Maximum Input Signal	± 4V (VPP)
Preamplifier Gains	0, 20, 40, 60 dB
Input impedance	10 KΩ
Sample Interval	0.025; 0.05; 0.1; 0.15; 0.2; 0.25; 0.5; 1.0; 5.0 ms (the engineering mode)
Sample Interval	1.0; 2.0; 5.0 ms (the seismological mode)
Record length	100 upto 64000 (the engineering mode)
Delay	0 ÷ 9999 ms in 1 ms steps
Line testing	Real time noise monitor displays, real-time output from geophones
Triggering	Positive, negative impulse/contact closure, piezoelement, geophone
Data format	SEG-Y
Power	Requires 12V external battery, 12V/≤2A
Operating Temperature	-20°C to +55°C ambient, (waterproof)
Operating System	WindowsXP / 7
Dimensions of the seismograph	360×304×194 mm
Weight of the seismograph	6 kg

*All geophysical equipment is widely and effectively applied in engineering researches.*



**NTK “DIOGEN”**

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