

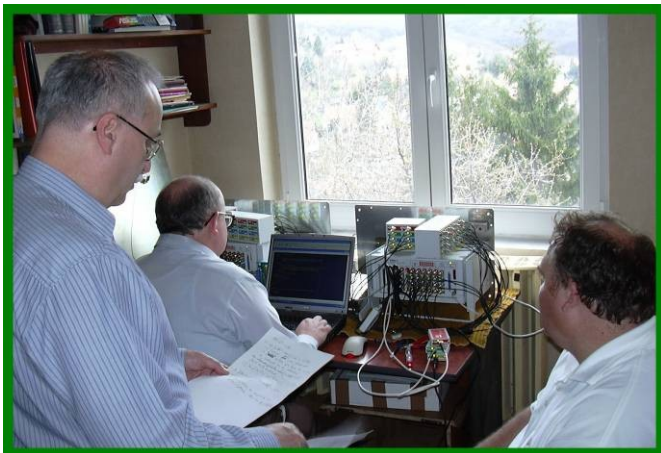
EXAMINATION AND SAFE OPERATION OF PRESSURE VESSELS, PIPELINES
AND DANGEROUS INDUSTRIAL OBJECTS

ACOUSTIC-EMISSION MEASURING DEVICES
FOR NON-DESTRUCTIVE TESTING
AND ENGINEERING DIAGNOSTICS

SENSOPHONE

AED-400 FAMILY

- Several industrial designs taking into account the purpose, object and circumstances of the test
- Connecting devices together, the number of acoustic-emission (AE) channels can be increased
 - Execution and evaluation of the measurement, preparing reports with connected PC
 - Special devices for individual testing and in-service monitoring
 - 3-color LED display of the state and activities of AE channels
 - Analogue voltage inputs for measuring the load parameters
 - Supply from mains, uninterrupted mains or battery
 - Wide range of accessories and attachments
 - Up-to-date microelectronic components
 - High reliability, low power consumption
 - Aesthetic and ergonomic design



The **SENSOPHONE AED-400**
acoustic-emission product family
is developed, produced and sold by
Geréb and Co. Ltd.
based on their three decade-long experience
in the field of
acoustic-emission measuring, engineering
and instrumentation development

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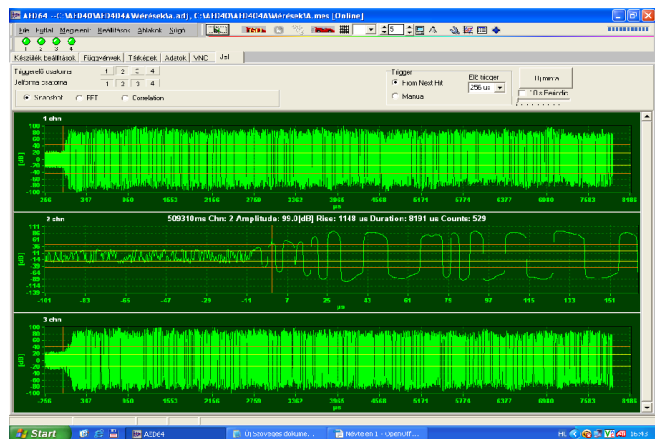
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"BE SURE OF SAFETY"

MAIN TECHNICAL CHARACTERISTICS

	AED-404	AED-416	AED-432
Number of AE channels	4	16	32
Measurement of all standard AE parameters	yes	yes	yes
Programmable digital filter on all AE inputs	30 kHz .. 1 MHz	30 kHz .. 1 MHz	30 kHz .. 1 MHz
Location on plain, cylinder, sphere surfaces	yes	yes	yes
Burst waveform recording on all AE channels	8 ms	8 ms	8 ms
Continuous waveform recording on AE channels	yes	-	-
Signal form and spectrum analysis	yes	yes	yes
Correlation calculations	yes	yes	yes
Phased linking of similar devices	yes	yes	yes
PC interface	USB, Ethernet	USB, Ethernet, wireless	
External powering	12 B / 0,25 A	12 B / 1,0 A	12 B / 2,0 A
Powering via interface	USB	Ethernet (PoE)	
Size	119x113x35 mm	126x213x77 mm	380x270x167 mm
Weight	320 g	1300 g	7000 g

- Control computer – notebook, linked to the device via USB, Ethernet, PowerLine, wireless (WiFi, GSM)
- Powering from a wall adapter or battery, as well as via USB or Ethernet interfaces
- Rising the number of AE channels by linking similar devices to a common synchronised system (up to 128 channels)
- Possibility to go closer to the inspected object
- Minimum of cable connections
- Programmable linear or logarithmic amplifying mode
- Programmable test mode (pulsar) on all AE channels
- Analog input lines for load control
- Digital input/output lines for technology process control
- Small size and weight, easy carrying

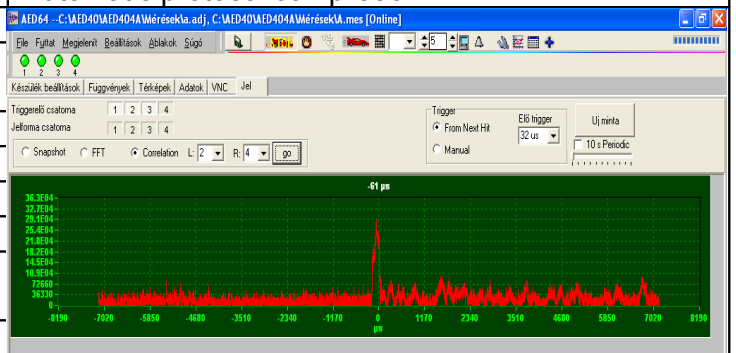


BUILT-IN NEW HARDWARE POSSIBILITIES:

PC interfaces: USB, Ethernet, GSM, WiFi	Automatic setting of fixed/flying thresholds individually for all AE channels
Phasing linked devices by GPS	Detecting and signaling of cut-off and short-circuit at the preamplifier cables
Digital filters on all AE channels	RGB signaling of AE channels' state
Waveform recording on all AE channels	
All channels' hit data arrangement on Hit Time	

SOFTWARE FEATURES AND HIGHLIGHTS

Complex support for arrangements, fulfilment and evaluation of AE inspection	Location: linear or on plain, cylinder, sphere surfaces
Continuous monitoring or single / periodic inspection mode	Import of the inspected object's drawing
Real-time and multiple off-line evaluation	2D and 3D graphic evaluation of inspection's data
Test modes: cabling and sensor placing check	2D and 3D graphic representation of source locations
Automatic determination of the sound's local velocities, attenuation and running time	Automatic protocol compilation
Computing secondary AE parameters	
Signal form and spectrum analysis	
Correlation calculations between any two channels	
Configuring logical filters for AE Hits and Events	
Configuring logical conditions for issuing warning and alarm signal (only at on-line)	
Linear transformation of load parameters	
Configuration data is saved in adjustment file	



ACCESSORIES

AE sensors with or without built-in preamplifier	Hsu-Nielsen source for testing
Magnetic hold-down for sensors	Universal power supply
Coaxial cables with or without built-in preamplifier	USB / Ethernet cable
Bobbins for long cables	Carrying case

IN SEVERAL CASES THE AE EXAMINATION CAN BE EXECUTED DURING OPERATION, WITHOUT DISTURBING THE TECHNOLOGY!