

SONEX

INNOVATIVE MEASUREMENT SOLUTIONS

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Ultrasonic Non Destructive Testing Device



Oil & Gas | Metallurgy | Construction Industry | Welding test

Non Destructive Testing Device

SONEX ultrasonic non-destructive testing device, is designed to excite and use the ultrasonic NDT probes with the center frequencies of 0.5 to 10 MHz. This device is capable of producing "Spike" and "Burst" modes of excitation with the maximum voltage of 250V. This device has high frequency Amplifiers and filters for the received signals. To digitize the received signals, an ADC with the sampling frequency of 80 MHz and 12 bits of resolution is used. The LCD and the keys have been designed to easily control the excitation and see the resulting signals.

The designed and manufactured ultrasonic Non-Destructive Test probes have the center frequencies of 1 and 2 MHz and can be used to show the Cracks, holes and other imperfections in Steel with a resolution of 500 micrometers. Both Shear and Normal Probes are available at these frequencies.

- 7-inch screen
- Battery for 5-6 hours of continuous operation.
- Ability to generate excitation pulses in two modes, Spike and Burst
- Adjustable excitation voltage from 60 to 250 volts
- Designed for ultrasonic probes from 0.5 MHz to 10 MHz
- Signal averaging up to 16x
- Adjustable gain up to 80 dB (10,000 times)
- Two Gates for pointing and calculation
- Adjustable detection range up to 2 meters
- Supports DAC Standard with 6 Points
- Supports AWS Standard
- Ability to calibrate the time axis and calculate the sound speed of the material and the delay of the probe
- Standard Lemo connectors
- Able to save settings, DAC charts and AWS in internal memory
- Able to capture and save screenshots in the internal memory, which can later be transferred to USB Flash

Applications

- Chemical industry
- Petrochemical industry
- Oil and gas industry
- Construction Industry
- Steel industry
- Casting industry

