

NB-2000MCx Multi Channel Ultrasonic Testing

High Speed, High Resolution for Weld and Corrosion Inspection



Faster, Smaller, More Powerful

This is our fastest field system to date. Uncompromising UT performance, in a small package. Ready to work in difficult conditions. Combine multiple UT techniques in the same scan: TOFD, Pulse Echo, Angle Beam, Zero Degree.

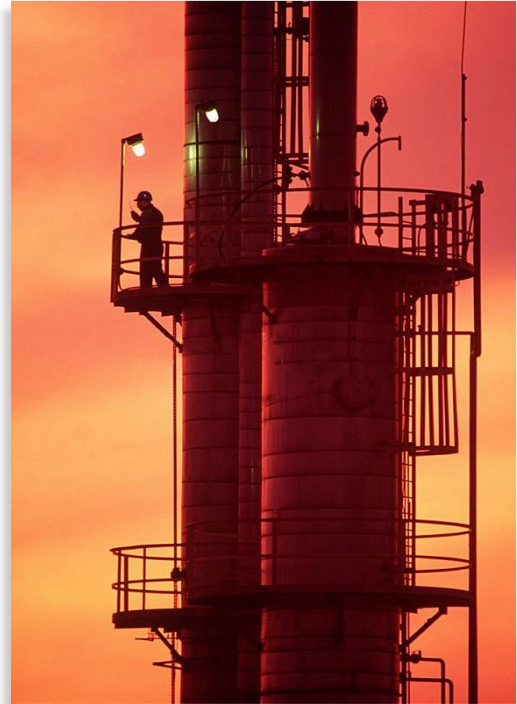
High speed, PCI BUS, 125 MHz 14 Bit Digitizer

Configured as 8 for 16 UT channels

Powerful integrated data analysis, weld overlay, angle correction and report generation software. ASME, AWS, API Code integration



NB2000-MCx Specifications



Acquisition System Standard Package

Pulser: Model Megapulser HF
Digitizer: Model PCIDO-125
Software: Data Calibration & Acquisition
Data Display & Analysis
Transducer Evaluation
Scanner Control
PC Notebook Computer
Packaging: Industrial Field Case

Specifications

UT Instrument (Megapulser HF)

8 or 16 Channels, computer addressable
Range
.26 uS - 261 uS, selectable in many increments
Velocity
One point calibration function
Two point calibration function
Full velocity range adjustment
Units: in/S, in/uS, ft/S, m/S
Delay
0-261 uS at 125 MHz sampling rate
Gain
0-100 dB, .1 dB Steps or keyboard entry
Transducer Frequencies
.5 MHz - 15.0 MHz
Test Modes
Pulse echo, Transmit/Receive, TOFD
Linear or Logarithmic display
Pulse
Negative square wave pulse, -150 to -300 V
Transducer Frequencies .5 - 15 MHz
Maximum Repetition Rate
10,000 Hz with external trigger
Rectification
RF, Full, + Half, - Half
Reject
Full linear control to 100% screen height

Specifications

UT Instrument (cont.)

DAC
128 points, 100 dB range
Slew rate 100 dB between any two points
Gates
12 individual gates, Amplitude/Depth
Delay or interface mode
Detection: Maximum/Minimum peak
Rising/Falling edge
First peak

Displays

Multichannel A, B, C & D Scan; Stacked A-scan
Combine displays from several scans
Weld geometry overlay
Frequency spectrum

Digitizer

125 Megasamples/Second 14-Bit resolution
Sample points: 32k
Range: 32-32k (increments of 16)
Delay: 0-32k
Trigger: External or Software control

Power Requirements

100 - 240V, 50-60 Hz AC

Dimensions

Industrial case: 18.5"x14.5"x5.75"
Weight: 18 lb.

Scanners

Full range of manual & motorized scanners:
Motorized magnetic wheel scanner
Motorized TOFD scanner
Manual pipe scanners
Manual X-Y magnetic wheel scanner
Manual TOFD scanners
Custom scanners available

Automated Inspection Systems, Inc.

4861 Sunrise Dr. Suite 101, Martinez, CA 94553 USA
(925) 335-9206 (925) 335-9208 Fax <http://www.ais4ndt.com>
All specifications subject to change, please contact us for details