

MS-8XX

MULTI-CHANNEL ULTRASONIC TEST ELECTRONICS



FEATURES

- 8 test channels, with expansion up to 16
- Individual UT settings and alarms for each channel
- High PRF for quick and reliable test results
- Continuous A-Scan recording for post-inspection analysis
- Intuitive interface for ease of settings and inspection
- Advanced single board computer for superior performance
- Direct access function keys for quick operations
- Data export feature for report generation and analyses
- Large LCD & multiple colour schemes to monitor each channel clearly
- Sturdy metal body for reliable usage in tough conditions
- Portable size for ease of use in the field and production plants
- Easily interfaced with external systems for automation, location tracking and alarms

APPLICATIONS

The MS-8XX electronics can be used with multiple types of transducers, including T/R, immersion and delay line. This along with superior performance and features, enables the MS-8XX to be used in a variety of critical applications. A few important ones are:

- **Pipes (Body):** Transverse and longitudinal defects on the OD/ID & wall thickness monitoring of the pipe body can be done using the MS-8XX.
- **Pipes (Weld):** Transverse and longitudinal defects in welds and HAZ areas can also be inspected using the MS-8XX.
- **Plates/Coils:** Portable scanning trolley can be used with the MS-8XX to inspect plates and coils for wall thickness as well as lamination defects.
- **Bars/Billets:** Cores of bars and billets can be inspected for defects by using transducers of different focii in multiple arrangements.
- **Rails:** Railway tracks can be tested for defects in various orientations using EECI's inspection system.
- **Cylinder:** The complete body of a gas cylinder can be checked for defects and wall thickness.
- **Automotive Components:** Automotive components can be investigated for defects in various stages of production using specialised probes.

TECHNICAL SPECIFICATIONS

Test Channels	: 8 Sequential (expandable up to 16)
Receiver bandwidth	: 1 MHz to 10 MHz
Gain	: 0 to 80 dB, 0.1, 0.5, 1, 2, 6, 12 dB selectable
Rejection	: Linear, 0 to 99% of FSH, 1% step
Operating mode	: T-R, T+R
Test mode	: Pulse echo, Through transmission
Range	: 25 mm to 550 mm
Delay	: Up to 100 mm
PRF	: In built, auto limiting for set parameters
Velocity	: 2000 m/s to 10000 m/s
Vertical linearity	: $\pm 5\%$
Time base linearity	: $\pm 1.25\%$
Triggering	: Internal
Monitor Gates	: 2 gates per channel
Gate alarm logic	: Positive/negative selectable
Alarm	: LED & beeper for each gate
Probe connector	: BNC
Trigonometric Functions	: Beam path, Flaw depth, Surface distance
Measurement Units	: millimeter
Echo display	: Full wave rectified
Ascan Display Modes	: Single Channel or View All
Display pattern	: Filled / Unfilled
Acquisition Memory	: Ascan envelopes and Echo patterns
Calibration Set Memory	: 10 Calibration sets (save and recall)
Interface	: Pen drive, PC communication and Gate alarm output
Keyboard	: Multi-function and Direct access keys
Power	: 220 - 240 VAC, 50-60 Hz
Reserve Power	: Up to 5 hours of operations on battery
Dimensions	: 240 x 268 x 300 mm