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Flaw Detector

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Digital Ultrasonic Detector Leeb510/520/521/5

28 Leeb510-522

INQUIRY

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Description

Digital Ultrasonic Detector **Leeb510/520/521/522**

Function & Feature:

- With high-precise positioning, it meets requirements of close and distant detection;
- Small blind near-field allows the detection of small diameter, thin-walled tube;
- Automatic calibration: with one-button automatic calibration, convenient operation, automatically testing the "zero", "K value", "forward" of the probe and "speed of
- Auto-display the location of flaw echo (depth d, level p, distance s, amplitude, equivalent dB, ϕ aperture value);
- Free switch to three kinds of standards (depth d, level p, distance s);

- Auto-gain, return envelope, peak memory function improves detection efficiency;
- ϕ value calculation: forging straight probe testing, identifying the highest wave of defects, automatic conversing ϕ aperture value
- 100 independent testing channels (expandable), you can freely enter and store any industrial testing standard, do field detection
- Freely store and playback 500 A-scan wave forms and data;
- DAC and AVG are automatically formed, without restriction of sub-sampling points, and can be corrected and compensated.
- 13 built-in testing standards can be used;
- You can freely enter any industrial standards;
- The width and intensity of launch pulse are adjustable;
- It can connect to the computer, realizing data management, and exporting inspection reports of Excel format with A4 paper ;
- With the durable shell, oil-proof, water-proof and dust-proof;
- 26 million colors ultra-bright display, adjustable brightness, suitable for both intense and low light working environment;
- Battery with a good performance of safety and environment-friendly, can work for 10 hours.
- Time records: track and store records of testing date, time;
- With power outage protection, stored data will not be lost;
- Testing parameters can be automatically tested or preset;
- With digital suppression, no effects for the gain and linearity;
- Gain Compensation: Correcting dB attenuation caused by surface roughness, surface curvature, distant-testing of thick piece and other factors;
- Two input methods: Angle and K values
- Echo frequency analysis
- Power indicator
- Strobe Audible and visual alarm
- DAC Audible and visual alarm
- Screen lock and unlock
- Clock display

Application Fields

Widely used in boilers, pressure vessels, aerospace, power, petroleum, chemical, marine, military, petroleum pipeline, ship-manufacturing, automobile, machinery manufacturing, metallurgy, metal processing, steel structure, railway transportation, nuclear

Technical Specification

Model	Leeb510	Leeb520	Leeb521	Leeb522
Operating Frequency	0.5MHz~15MHz		0.5MHz~20MHz	
Scan Range(mm)	0-6000mm		0-10000mm	
Velocity Range（m/s）	1000~15000	100~18000	100~20000	
Vertical linearity error	≤3%		≤2%	
Dynamic Range	≥32dB		≥35dB	
Horizontal linearity error	≤0.2%		≤0.1%	
Testing sensitivity	≥62dB (Depth 200mm, Φ2 flat bottom hole)		≥65dB (Depth 200mm, Φ2 flat bottom hole)	
Measuring channel	50	100		
Storage	500	980		
TCG curve	○	○	●	●
B Scan	○	○	○	●
PC Connection	●			
Video	○	○	○	●
Gain Range(dB)	0~110	0~120	0~130	
Standard Probes	Straight probe: 2.5MHz, diameter 20mm, cable Q9-Q9 Angle probe: 4MHz, 60 degree, 8*9 mm, cable Q9-C5			
Dimension	240×160×40mm			
Weight	1.2kg			

Standard Configuration

Standard Delivery	Main Unit、Straight probe、Angle probe、Power adapter、BNC cables、PC software, Manual, Certificate, Warranty card
Optional Accessories	Optional probes, Cables, Calibration blocks, Coupling agent

Pictures



