Ultrasonic Flaw detector Leeb522

Russell Technologies India Pvt. Ltd.
C – 2/290, Sec – F, Jankipuram, Lucknow -226021 U.P. India
Telefax - +91 – 0522 - 4027541; Mobile: +91- 9450760411
www.russelltech-india.in; info@ russelltech-india.com

Digital Ultrasonic Flaw Detector Leeb522

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 sound" of the materials;
● 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 and calculating the large flat;
● 100 independent testing channels (expandable), you can freely enter and store any industrial testing standard, do field detection without test block;
● 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 power, and relevant departments in colleges and universities.

Technical Specification

Model	**Leeb522**
Scanning Range	0-10000mm
Velocity range	100-20000 （m/s）
Horizontal linearity error	≤0.2%
Dynamic Range	≥65dB
Gain range	130dB
Frequency range	0.5-20MHz
Storage capacity	300
The number of channels	500
Φ value calculation	√
Peak Memory	√
B-scan	√
DAC	√
AVG	√
TCG	√
Auto Calibration (1A)	√
Auto Calibration (two holes)	√
6dB DAC	√
Built-in standard	√
Detection Video	Unlimited time
U Disk Connection	√
PC Software	√
Online Upgrade	√
Surface Curvature correction	√
Ball rate measurement	√
DGS curve	×
Testing Standards	√
AWS	×
Pulse Amplitude	√
Pulse Width	√
Transmission Frequency	√
Gate Alarm	√
DAC Alarm	√
Working Hours	13 Hours
Probe Outlet	BNC
Display	LED
Standard Delivery	Main Unit、Straight probe、Angle probe、Power adapter、BNC cables、PC software

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