EBPu Electromechanical Equipment (Zhejiang) Co., Ltd.

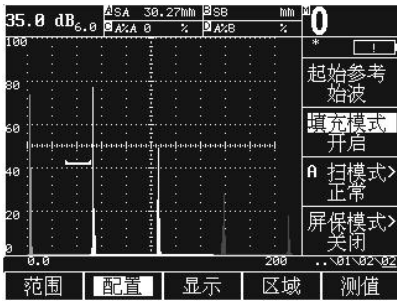
Provide solutions for material preparation, testing and analysis

Ultrasonic Flaw Detector

EFD-100

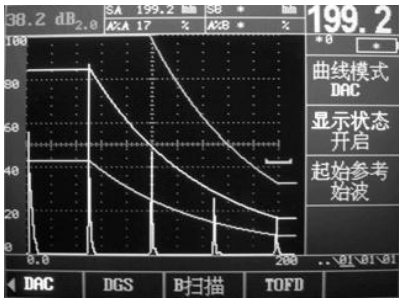
EFD-100: High performance and portability

EFD-100 is not only a simple and compact ultrasonic flaw detector with the ultimate lightweight design, long battery life, it is also designed for motion detection ,which perfectly combined the high performance and portability.

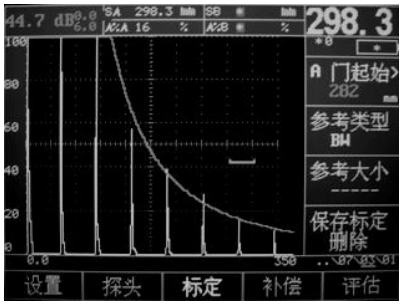


Wave Form

Value Display Area



DAC Curve



DGS Curve

FEATURES:

- **One Function Key, Easily Operate**
- **Ideal Menu Style**
- **Auto Calibration : Velocity, Probe Delay, Angle/K Value**

FUNCTION:

- **B Scan-Display Flaws Directly**
  Reducing analysis difficulty , missing detector
- **Massive Data Memory**
  100,000 values
- **Electronic Choice : Flaw detector together with high accurate thickness measured**
- **5 Intelligent DAC curves , comply to JIS and API standard**

OPERATION

- **High Accuracy: 10 places for AD samples**
- **Extra-long Standby Time:**
  20 hours, getting rid of trouble from battery
- **Display screen could be adjusted to provide 5 optimum brightness**
- **Magnesium alloy case, AP65 encapsulation, strong and durable , avoiding electronic-magnetic interference**

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SPECIFICATIONS
Measuring Range: 1.0~6000mm
Resolution: 0.01mm(<100mm) 1mm(>100mm)
Velocity: 500~20000m/s 20 fixed velocity
Delay: -20~3400us /resolution : 0.1us
Probe Delay: 0~99us /resolution: 0.01us
Auto Calibration: Velocity Calibration &Probe Delay Calibration
Linear Error Horizontal error≤0.1% Vertical error≤3%
Dynamic Range ≥36dB
Sensitivity ≥64dB 200mmΦ2 flat-bottomed hole
Dimension: 180×150×50mm
Weight: 1.0 Kg（including battery pack）
Working Environment Temperature：-20℃~70℃ Humidity：5%～90%
Dive Pulse: Negative spikes, high energy/low adjustable
Matched Damp: 50/150/400Ω
Detection mode Pulse echo/transmitting & receiving/transmission
Measuring mode: Peak/Verge
Detector Pattern 0~110dB 0/0.1/0.2/0.5/1/2/6/12/
Detector Pattern: RF/Full-Wave/Positive/Negative/ half-wave
Bandwidth: 0.3~1/0.5~4/2~15MHZ
LCD: TFT Color Display 5 options for variable brightness
Screen Update Rate ≥60Hz
GUI Theme Strong/weak light 2,the user can through the set text A, background color, sweep waveform coordinate free custom theme

Gate / measuring value / alarm	
Sluice gate: Two Separated Gate A/B	
Measured value display 5 measured value display area, where a main display area, Selectable measurement value content SA/SB/DA/DB/PA/PB/A%A/A%B/dBtA/dBtB/dBrA/dBrB/SBA/DBA/PBA/LA/LB	
Alarm Independent logic gate alarm, alarm threshold thickness measurement	
Storage	
Channel Parameters	20 groups
Scan A	1000 groups
Thickness values	100,000 data, liner
Reference wave	4
Input / Output	
Probe connector	LEMO or BNC
Communication	RS232
Regional	
Clock	date and time
Language	English
Unit	mm/inch
Battery	
Battery High-energy lithium batteries, excellent overcharge and over-discharge protection	
Battery Monitoring Coulomb energy measurement based on battery monitoring, the percentage / time display the remaining battery life	
Working Hours work continuously for more than 10 hours	
Battery Adapter Input : 100~240V/50~60Hz Output : 9VDC/4A	
High ranking	
B-scan two-dimensional coding Thickness / contour scanning; grayscale / color palette settings	
Curve freeze	YES

Characteristic indicator Sound path measurement wave front and amplitude measurement position indicator
CSC Surface Correction According probe angle, diameter of the work piece thickness and curvature correction for the measured values
Screen Saver: Standby / Text / off
Equivalent curve
DAC curve Can record 30 calibration points; Automatic Gain; any order calibration; calibration / edit two modified methods; consider the material attenuation and surface compensation factor; five adjustable gain curve to assess compliance with JIS and API Standards
DGS curve For large flat-bottomed, flat-bottomed hole via three reference types, consider a reference attenuation, attenuation and surface material compensation factors, defect assessment methods: equivalent size/ equivalent gain / percentage
Standard

Main engine	1	Instructions	1
Straight / angle probe	2	Box	1
Probe line	1	Coupling paste	1
Charger	1		
Battery	1		

Optional
Printer TP serial printer, you can print directly screenshots / waveform / thickness of the three data report
Communication **RS232**

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