

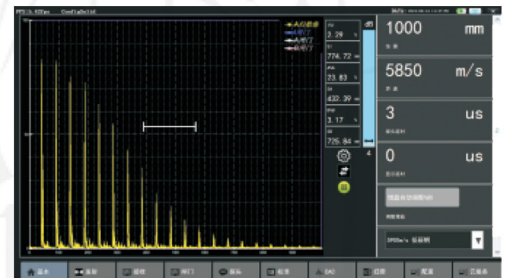


CMSUFD-USB: High performance

We pursue the degree of portability in industrial flaw detection and make it simple. The team works hard day and night to develop new flaw detector to make flaw detection more simple and convenient and meet the increasingly updated needs of modern flaw detection.

Features:

- Small size
- Metal shell
- Lemo c5 interface, square wave pulse emission
- USB2.0 access win system
- With A sweep, B sweep, screen capture, recording, function
Man-machine dialogue calibration probe
- DAC curve, DGS curve
- Save parameters, save waveform, cloud service, etc.
- It can be used for touch screen operation in win system



Application field

- Pressure vessels, petrochemical, aerospace, welding, railways, steel mills, nuclear industry, aircraft manufacturers, automobile production

General descriptions

- Square Wave Excitation and Narrow Band Filtering
- B/C, 5 DAC curves, in accordance with JIS, APS standards
- Practical DGS



Ultrasonic flaw detector CMSUFD-USB



Parameter

Win10 system
Support WIFI
Support gravity sensing
The USB interface
The Mini HDMI
CPU using 1.92 GHz
12 nuclear Intel Cherry
Trail Z8350 processor

SPECIFICATIONS

Measuring Range 1.0~1000mm
Resolution
0.01mm(<100mm) 1mm(>100mm)
Velocity
500~20000m/s 20fixed velocities
Delay
-10~1000mus /resolution : 0.1us
Probe Delay
0~200us /resolution: 0.01us
Auto Calibration
Velocity Calibration & Probe Delay
Calibration
Linear Error
Horizontal error $\leq 0.1\%$
Vertical error $\leq 3\%$
Dynamic Range $\geq 36\text{dB}$
Sensitivity
 $\geq 64\text{dB}$ 200mm ϕ 2 flat-bottomed hole
Dimension (mm) 280x185x26.5
500g
Working Environment
Temperature: -10°C~50°C
Humidity: 5%~90%

Pulse

The square wave pulse voltage is
3.3V Pulse width 251ns

Receiver

To detect patterns
Pulse echo/transmit receive/transmit
Measurement peak/edge
Gain 0 ~ 80 db
Detection methods
Positive/negative half wave /RF/ full wave
The frequency bandwidth
0.1M-20M

Display

With 10 inches, IPS, 1920 x 1200 touch
screen

Gate

Gate Two Separated Gate A/B
Measured value display
5 measured value display area,
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
hreshold thickness measurement



Storage

Hard disk space: 60G
 Channel Parameters 20
 A Scan 2000
 Thickness values 200,00 data
 Wave video
 Reference wave 4

Input / Output

Probe connector C5

Regional

Clock Real-time display date/time
 Language English & Chinese
 Unit mm/inch

Battery

The battery
 Lithium battery adopts 3.7V12000mah
 battery for continuous operation Do 8 hours
 Enter 100 ~ 240 v / 50 ~ 60 hz
 Output 5 VDC / 2 a

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
 large flat-bottomed, flat-bottomed hole,
 through-hole

High ranking

U disk storage
 Storage screen
 shots/waveform/thickness three data report
 Gate broadening
 Gate area of concern for the details of
 observation and analysis
 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
 Lock
 data set can be locked to avoid accidental
 deletion of data
 Screen Saver Standby/Text/off

Standard

Main engine	1
Straight / angle probe	2
Probe line	2
Chargers	1
Battery	1
The instructions	1
The packing cases	1
The coupling agent	1

optional

160MHZ sampling frequency