

ULTRASONIC FLAW DETECTOR

TFD810C



SPECIFICATIONS

Ranges: 0.5 to 10,000 mm (steel) range selectable in fixed steps or continuously variable

Material velocity: 1,000 to 15,000 m/s continuously variable in steps of 1 m/s and 22 selectable material velocities

Display delay: From -5 to 1,000 μ s

Probe delay: 0 to 200 μ s

Auto calibration: Measurement and setting of sound velocity and probe delay using two known calibration echoes (2-point calibration)

Pulse energy (Spike mode): Low energy (70V), High energy (500V)

Square wave excitation pulse (option)

Pulse Voltage 20 to 500 V adjustable in 10 V increments

Pulse Width Tunable from 20 to 1000 ns in 10 ns increments

Damping: Low (50 ohms), High (500 ohms); (1,000 ohms in TR mode)

Pulse repetition frequency: 20 to 1K Hz

Frequency ranges (-3 dB): 0.2 to 1 MHz, 0.5 to 4 MHz, 2 to 20 MHz

Gain: 0 to 110 dB adjustable in selectable steps 0.5, 1.0, 2.0, 6.0, 12.0, user definable, and locked (step 0).

Rectification: Full-wave, negative half-wave, positive half-wave and RF mode

Reject: Linear, 0 to 90 % screen height Variable in steps of 1 %

Monitor gates: 2 independent gates in color bar mode, start and width variable over the entire calibration range, response threshold of 5 to 95 % screen height variable in steps of 1 %.

Alarm: Alarm signal via LED and connectable internal horn. Alarm mode of positive logic, negative logic or DAC Zoom Expands A-scan display area for increased screen resolution.

Magnify: Expands area within the selected gate over the entire display range for increased A-scan resolution.

The TFD810C Digital Ultrasonic Flaw Detector combines TMTeck' industry leading conventional flaw detection capabilities with the efficiency of a highly portable, intuitive instrument. The TFD810C flaw detector's blend of efficient menus and direct access keys allows you to take advantage of the highest quality flaw detection platform with exceptional ease of use.

- Simple to use, quick to operate, from basic to challenging inspection requirements.
- From high frequency inspections for thin materials up to low frequency for attenuative materials.
- From automotive, power generation, oil and gas to aerospace applications.

SOUND PATH MEASUREMENT

Digital display of sound path (projection distance, depth) between initial pulse and the first echo in the gate, or between the echoes in the two gates, with selectable echo peak, echo flank or Japanese echo flank detection.

Amplitude display: In % screen height:

- dB difference above gate height,
- dB difference above DAC or TCG
- dB difference above DGS curve (FD350)

Displayed reading:

Sound path, (reduced) projection distance, depth, amplitude for every gate, user configurable at four positions of measurement line and of the zoomed display in the A-scan

Display:

- 5.7 inch LED backlight TFT_LCD
- Display resolution 320 x 240 pixels
- A-scan resolution 200 x 220 pixels, 320 x 220 pixels (zoom)

A-scan functions:

Manual or automatic A-scan freeze, A-scan comparison, echo dynamics (envelope), peak echo storage

Standard Delivery of Digital Portable Ultrasonic Flaw Detector TFD810C:

- Portable ultrasonic flaw detector main unit
- Operating manual
- Straight Beam probe
- Angle-beam probe (60 degree)
- Probe cable
- PC software CD
- Serial PC cable
- AC adapter/charger
- Carrying case

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