DAKOTA ULTRASONICS



Physical

Size:

Width (2.5in./63.5 mm.) Height (6.5 in./165 mm.) Depth (1.24 in./31.5 mm.)

Weight:

13.5 ounces (with batteries).

Keyboard:

Membrane switch pad with twelve tactile keys.

Operating Emperature: 14ûto 140 (F (-10 (C to 60 (C)

Case:

Extruded aluminum body with nickel-plated aluminum end caps (gasket sealed).

Data Output:

Bi-directional RS232 serial port. Windows PC interface software.

Display:

1/8in. VGA grayscale display (240 x 160 pixels). Viewable area 2.4in. x 1.8in. (62m. x 45.7mm). EL backlit (on/off/auto).

Ultrasonic Specifications

Measurement Modes:

Pulse-Echo (PrecisionÑ General purpose).

Interface-Echo (PrecisionÑ Thick materials).

Echo-Echo (PrecisionÑ Thin materials & thru-paint).

Pulser:

S quare wave pulser with adjustable pulse width (spike, thin, wide).

Receiver:

Manual or AGC gain control with 40dB range, depending on mode selected.

Timina:

40 MHz with ultra low power 8 bit digitizer.

Warranty

2 year limited



Power Soure

Three 1.5V alkaline or 1.2V NiCad AA cells.

Typically operates for 150 hours on alkaline and 100 hours on NiCad (charger not included.)

Auto power off if idle 5 min.

Battery status meter.

Measuring

Range:

Interface-Echo Mode:Steel .050in.-1.0in. (1.27mm-25.4mm). Plastics from .005in. (.127mm).

Echo-Echo Mode: Steel .006in.-.500in. (1mm-12.7mm).

Pulse-Echo Contact:Steel .040in.-10.0in. (1mm-254mm). Plastics from .010Ó(.254mm).

Echo-Echo Contact:Steel thru-paint .100in-3.0in. (2.54mm-76.2mm).

Resolution (selectable): +/- .001 in. (0.01 mm) +/- .0001 in. (0.001 mm)

Velocity Range: .0492 to .5510 inches/µs 1250 to 9999 meters/sec

One and Two Point calibration option, or selection of basic material types.

Units:

English & Metric

Display

Display Views:

A-Scan-

Rectified +/- (half wave view)
RF (full waveform view)

B-Scan- Time based cross section view. Display speed of 15 secs per screen.

Large Digits- Standar thickness view . Digit Height: 0.400 in. (10mm).

Scan Bar Thickness - breadings per second. Viewable in B-Scan and Large Digit views. Repeatability Bar Graph-Bar graph indicates stability of reading.

Data Logger (Interal)

12,000 readings and waveforms (alpha numeric storage).

OBSTRUCT to indicate inaccessible locations.

Memory:

16 megabit non-volatile ram.

Transducer

Transducer Type: Single Element (1 to 20 MHz).

Locking quick disconnect "00"LEMO connector.

Standard 4 foot cable.

Custom transducers and cable lengths available.

Features:

Setups:

16 factory and 48 custom user-defined setups.

Gates:

Single gate in contact mode. Single gate with holdoff in interface-echo, echo-echo, and plastics mode. Adjustable threshold.

Multiple Measuement Modes: Selectable modes for use with a variety of applications.

Alarm Mode:

Set Hi and Lo tolerances with audible beeper and visual LEDs.

Fast Scan Mode:

Takes 32 readings per second and displays the minimum reading found when the transducer is removed. Display continuously updates while scanning.

Certification

Factory calibration traceable to national standards.

Distributed by:





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