

SA40 Ultrasonic Thickness Gauge



Combination gauge for non-destructive ultrasonic thickness measurement

The **SA40 Ultrasonic Thickness Gauge** is a small and handy ultrasonic wall thickness gauge. The smart instrument is capable of measuring the wall thickness of a great variety of metallic and nonmetallic materials e.g.: iron, steel, aluminum, brass, copper, lead, magnesium, nickel, titan, zinc, beryllium, molybdenum, quartz glass, acrylic glass, nylon, polyethylene, polystyrene, silicon and many more. The usage of different probes ensures perfect flexibility at different circumstances for instance when measurements must be taken at hardly accessible spots or under extreme temperatures.

Through the usage of wall thickness gauges' materials which are exposed to corrosion or erosion can be controlled and thus, their safe usage is guaranteed.

Features

- Light, handy and safe in operating
- Large display-screen with automatic lighting
- High accuracy even in residual wall thicknesses
- 4 different probes are available: standard, miniature, high-temperature and cast-iron-testing tip with an 88cm connection cable
- Fast testing tip change by plug-in contacts
- Ultrasonic manually adjustable up to max. 9,999 m/s. Allows measurements on a large variety of materials (see velocities)
- Speed measurement with known wall thicknesses
- Memory holds 40 measurement results
- Units: mm or inch
- Simple calibration with integrated measuring plate
- Battery indicator

Application

- Steel plates
- Finishing parts
- Tubes
- Pressure vessels
- For example in: the petroleum, chemical, metal, shipbuilding, and aerospace industry

Top Users

- Sasol, Anglo, Caltex, Koeberg, Dorbyl





Technical Specifications

Technology	Measurement of first echo with transmit-receive sensor
Display	4-digit LCD with backlight
Measuring range	0.8 – 225 mm, depending on test material and chosen sensor
Accuracy	Adjustable ± 0.01 mm
Memory capacity	40 storage places
Resolution	0.01 mm in the range of 0.8 – 99.99 mm 0.1 mm in the range of 0.1 – 225 mm
Ultrasonic velocity	500 – 9.999 m/sec.
Coupling	On the display
Unit	mm or inch
Battery capacity indication	On the display
Automatic shut down	After 5 minutes non-use
Working temperature	0 - 40°C
Relative humidity	20 - 90%
Power supply	2 pieces 1.5V AA batteries
Size	124 x 67 x 30 mm
Weight	240 g

Packing List

SADT SA40 Ultrasonic Thickness Gauge
PT-5 Probe (5Mhz)
Couplant
2 x 1.5V Batteries
Instruction Manual
Hard Carry Case
Calibration Certificate

Probe Options

Sensor	Application	Measuring range in Steel	Surface temperature of work piece	Frequency	Diameter contact area	Sensor form
PT-5 	Standard Probe / Sensor suitable for steel, non-ferrous metals, aluminum with alloys, synthetics, ceramics, glass.	0.8 to 225 mm	-10°C to +50°C	5 MHz	10 mm	Direct
GT-5 	High Temperature Sensor suitable for steel, non-ferrous metals, aluminum with its alloys, synthetics, ceramics, glass.	2.5 to 200mm	-10°C to +400°C	5 MHz	12 mm	Direct
XT-5 	Special Miniature Sensor for measurements on small pipes, curved material, edges, small contact areas and where the area of accessibility is limited, on same material as PT-5	1 to 30 mm	0°C to +50°C	5 MHz	7 mm	Right-angled
CT-2.5 	Cast Iron Sensor for measurements on material with high signal attenuation such as cast-iron and synthetics.	3 to 225 mm	-10°C to +50°C	2.5 MHz	12 mm	Right-angled