## Sonic Thickness Gauges





## **Product Description**

The SG80 Series sonic thickness gauges have been specially designed for the automotive industry.

The SG80 & SG80BDL are frequently used for measuring the thickness of cylinder walls, intake or exhaust ports, chassis, tubing, body panels, and windscreens. It also has the ability to scan the length of a part to find the minimum thickness.

The time-based B-Scan feature of the SG80BDL displays a cross section of the opposite surface, allowing engine builders the ability to see the contour of the back surface in cylinders while scanning.

Use the Echo-Echo ThruPaint™ feature of the SG80BDL to measure chassis tubing with or without paint and other coatings.

## **Advantages**

- Multi calibration options: 1 point, 2 point and speed of sound for optimal accuracy
- Range of display & measurement options:
- Pulse-Echo, Echo-Echo ThruPaint™ technology
- Multiple calibration and material selection options
- Adjustable gain: -30dB to 70dB range
- Automatic gain control (AGC)
- 64 User definable setups
- High speed scan: 32 readings per second
- Differential and minimal thickness alarm modes
- Data storage capability: 12,000 readings and waveforms or B-Scans
- · Download to Data management software



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## **Technical Specification**

Model & Part Number SG80 Sonic Gauge SG80BDL Sonic Gauge Material thickness digits display PΕ PE & EE (ThruPaint™) Measurement Mode Measurement Rate: Manual: 4 readings per second 4 readings per second Scan Mode: 16 readings per second 32 readings per second Measuring Range 0.63 - 500mm PE 0.63 - 254mm, EE 1.27 - 102 mm Measurement Accuracy ±0.01mm Measurement Resolution 0.01mm Velocity Calibration Range 1250 - 10,000m/s Additional Features: High speed scan mode Limit alarm mode Data logging 12,000 readings (+ B Scans) **Calibration Options** 1 & 2 point 1 & 2 point, velocity and material selection Transducer Probe Type dual element Transducer Frequency Range 1 - 10MHz V-path / dual path error correction automatic LCD with 12.7mm high digits 1/8 VGA Display Units (selectable) mm or inches; m/s or in/µs mm or inches LED Backlight on / off / auto Repeatability / Stability Indicator Battery Type 2 x AA alkaline 3 x AA alkaline Battery Life (approximate) 200 hours 150 hours Low Battery Indicator **Battery Save Mode** auto **Operating Temperature** -30 to 50°C -10 to 60°C Size (w x h x d) 63.5 x 114.3 x 31.5mm 63.5 x 165 x 31.5mm Weight (including batteries) 284g 383g Aluminium case design with gasket sealed end caps, waterproof membrane keypad Transducer Connector Type LEMO

## **Packing List**

RS232 Interface

- Elcometer NDT CG70BDL gauge / Elcometer NDT CG70ABDL gauge
- Couplant
- Carry Case
- User Manual
- Test Certificate
- 2 x AA Batteries (SG80 Sonic Gauge) 3 x AA Batteries (SG80BDL Sonic Gauge)
- Software (for Elcometer NDT SG80BDL Sonic Gauge unit only)
- Transfer Cable (for Elcometer NDT SG80BDL Sonic Gauge unit only)

### Accessories

# Cables & AdaptatorsCouplantTL-24031RS232 Cable (6'); DB-9 to LemoTC-24034-1Couplant: Standard; 4oz BottleTL-24032USB to Serial AdapterTC-24034-2Couplant: Standard; 12oz BottleOther AccessoriesTC-24034-3Couplant: Standard; 1 GallonTZ-24038Spring Loaded Probe Holder (V-Block)TZ-24039Hammer Transducer (Cylinder Kit)



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