



Ultrasonic wall thickness gauge TIME@2180B

Professional ultrasonic wall thickness gauge for non-destructive wall thickness measurement and corrosion inspection, developed by Beijing Time High Technology Ltd. The device operates on the pulse-echo principle and is specifically designed to detect corrosion, wall loss, erosion and thickness variations. The color TFT display with integrated B-scan function allows material changes along a measurement path to be visualized immediately, making large-area corrosion surveys significantly easier. With measurement rates of up to 20 readings per second and storage for up to 50,000 readings, the TIME@2180B is particularly well suited for extensive corrosion mapping and long-term monitoring of assets in mining, the oil and gas industry, and other areas of industrial maintenance.

Features

- B-scan imaging for corrosion detection
- Measurement through coatings without removing them
- Automatic probe recognition and self-calibration
- Three measurement modes: Pulse-Echo (T-E), Interface-Echo (I-E), Echo-Echo (E-E)
- High-speed measurement mode with up to 20 measurements per second
- Data storage for up to 50,000 readings
- Color TFT display for good readability
- Compact and rugged for mobile use in mining as well as the oil and gas industry
- Dynamic compensation for probe replacement and couplant variations
- USB interface for PC communication, can also be used for power supply

Scope of delivery

- Main unit
- Probe 5PØ10
- Coupling agent
- Certificate and warranty card
- Operating manual
- **Optional Accessories**
- Couplant gel (50/500 ml), step block (4-/5-step)

Technical Data

Parameter	TIME@2180B
Measuring range	0.6 – 508 mm (probe-dependent)
Speed of sound	508 – 18,699 m/s
Display	Color TFT LCD, 320 × 240 pixels
Resolution	0.001 / 0.01 / 0.1 mm (selectable)
Accuracy	±(0.5% H + 0.01) mm
Measurement modes	Pulse-Echo (T-E), Interface-Echo (I-E), Echo-Echo (E-E)
Measurement rate	up to 20 Hz
Data storage	up to 50,000 readings
Power consumption	< 120 mA (without backlight)
Operating temperature	0 – 40 °C
Dimensions	134 × 76 × 31.5 mm
Weight	178 g
Interface	USB (data communication and power supply)
Power supply	3 × AA batteries (1.5 V) or NiMH rechargeable battery
Standards	Q/HD SDF0001-2014, JJF 1126-2004, GB/T 6587

Technical changes reserved.