# SafeTest LD Series

### **Technical Data Sheet**







Eliminate Live Work



Wireless up to 100m (328ft)



Purpose Built for Heavy Industry



#### **Overview**

The SafeTest Laser Displacement Sensor enables completely wireless non-contact measurement of displacement. It removes technicians from the live work area, greatly reducing the risk of injury.

This rugged, non-contact laser displacement sensor is designed to achieve fast and accurate measurements in the harshest mining environment. It has a larger measurement span than the SafeTest Dial Indicator, and has a small form factor which allows measurements to be taken in tight spaces.

Use the Wireless MultiTool or the Multitool Pro to capture multiple displacement measurements at the same time.

#### **Applications**

- · Slew deflection checks
- Diagnostics and fault finding
- Measure part wear and tear

#### **Capability**

- Measures displacement with a measurement span of 30mm (1.18in), between 35mm (1.38in) and 65mm (2.56in) from laser aperture.
- Measurement accuracy of 0.1mm / 0.0039 inch
- Up to 100m (328ft) Bluetooth Range
- Rugged IP67 design
- · Visible class 2 red laser
- · Supplied with ball head magnetic base
- · Compatible with Dial Indicator Mag Base









## **TECHNICAL DATA SHEET**

#### **Specifications:**

<b>Electrical</b>		
Power connector	DC jack 5.5mm (0.22in) x 2.1mm (0.08in) - 18V	
Battery technology	Nickel Metal Hydride	
Battery life cycle	1,000 charging cycles	
Charging	To be charged by SafeGauge charging case only	
Operating time	Up to 6 hours	
Charging time	4 hours	

<b>Mechanical</b>		
Dimensions	Communications box: L 100mm (3.94in) x W 75mm (2.95in) x H 34mm (1.34in) Laser with supplied magbase: L 48mm (1.89in) x W 29mm (1.14in) x H 120mm (4.72in) Cable: 300mm (11.81in) long	
Weight	540g (19.05oz) with magnetc mounting base	
Housing material	Communication box: ABS plastic Laser Enclosure: Aluminium Front cover: Polycarbonate	
Ingress protection	IP67	
Mounting	Laser enclosure has both M6 x 1 and 1/4 - 20 thread types for versatile mounting options.	
	Supplied as standard with swivel ball head, utilising 1/4 - 20 thread	
Operating range	35mm (1.38in) to 65mm (2.58in) from target (30mm (1.18in) span)	
Visible red laser specifications	Laser Wavelength: 650nm Laser Diode Life: 8,000 operating hours MTBF Classification: Class 2 (Per IEC 60825-1:2014) This product complies with IEC 60825-1 Ed. 3 and 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No 50 of June 2007	
Accuracy	0.1mm (0.0039in)	
Sensor operating temperature	-10 to 45°C (14-113°F)	
Sensor charging temperature	0 to 45°C (32-113°F)	

Communication		
Communication type	Bluetooth Low Energy 2.4GHz	
Maximum range	100m (328ft)	
Sample rate	8Hz	
LED system	Power LED flashes blue when searching to connect, and green when connected Laser LED is solid red when laser is on but out of measurement span, solid yellow when on the edge of measurement span and solid green when in the optimal meassurement span.	
Button system	During charging: Buttons have no function Outside charging: Power button turns device on/off Laser button turns laser on/off	

Environmental En		
Battery disposal	When finished with a SafeGauge product please return to SafeGauge Pty Ltd for correct recycling, or follow your local area laws and guidelines for correct battery disposal.	

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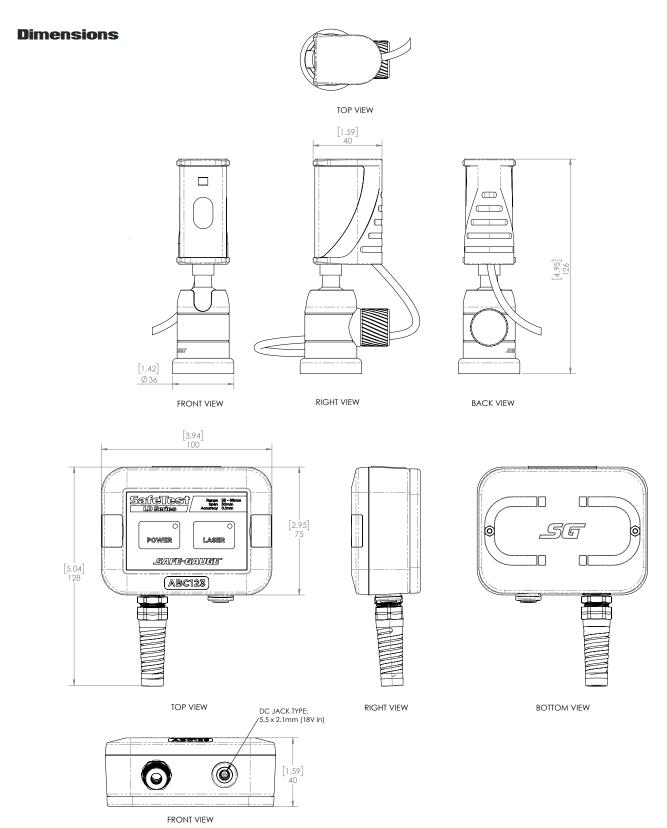








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