SAFE-GAUGE

PRODUCT CATALOG



WORK SMART, STAY SAFE

Eliminate Live Work by keeping maintenance teams out of the danger zone.

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SAFE-GAUGE

Wireless tools for safer and smarter maintenance.



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SAFE-GAUGE
PRESSURE TRANSDUCER

OVERVIEW

The SafeGauge Pressure Transducer allows technicians to safely and efficiently monitor high-pressure hydraulic and pneumatic systems from up to 328ft (100m) away. Available in various configurations, you can choose any combination of our variety of pressure ranges to suit every application. Packaged in a rugged hard shell carry case, with bespoke high density foam moulding and built in charging harness, the SafeGauge Pressure Transducer Kit is always ready to go at a moment's notice



BENEFITS

- **Safety**: Removes the technician from the line of fire when conducting hydraulic pressure testing. Eliminates technicians holding high pressure hoses.
- **Productivity:** Testing from up to 12 sensors at a time as a single person, without the need to set up or pack down long hydraulic hoses.
- **Reliability**: Digitally logged data identifies precise readings, especially during spikes or peaks.

FEATURES

- 328ft (100m) Bluetooth range
- Available in 2 - 12 channel kits
- Test multiple channels simultaneously
- 30 hour battery life

APPLICATIONS

- Hydraulic pressure testing
- Engine commissioning, oil and boost pressure
- Air conditioning system testing

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SAFE-GAUGE
DIAL INDICATOR

OVERVIEW

The SafeGauge Dial Indicator is designed to remotely measure clearances, tolerances and wear on machine components safely and efficiently – out of the line of fire.

Capable of measuring up to 0.39inch (10mm) of displacement with an accuracy of 0.0004inch (0.01mm) and wireless connectivity of up to 328ft (100m) away, the SafeGauge Dial Indicator is recognized as a new industry standard.



BENEFITS

- **Safety**: Removes the technician from the footprint of the machine as they do not need to visually observe the Dial Indicator.
- **Productivity**: Test movement from multiple points on the machine as a single operator.
- **Reliability**: Digitally logged data captures precise movement information, with automatic calculation of total travel.

FEATURES

- 328ft (100m) Bluetooth range
- Test multiple channels simultaneously
- 10 hour battery life
- Measures displacement with a resolution of 0.0005inch

APPLICATIONS

- Articulation pin movements on trucks, loaders and graders
- Equalizer bar wear measurement on dozers
- Off-highway truck A-frame, hoist and strut pin movement

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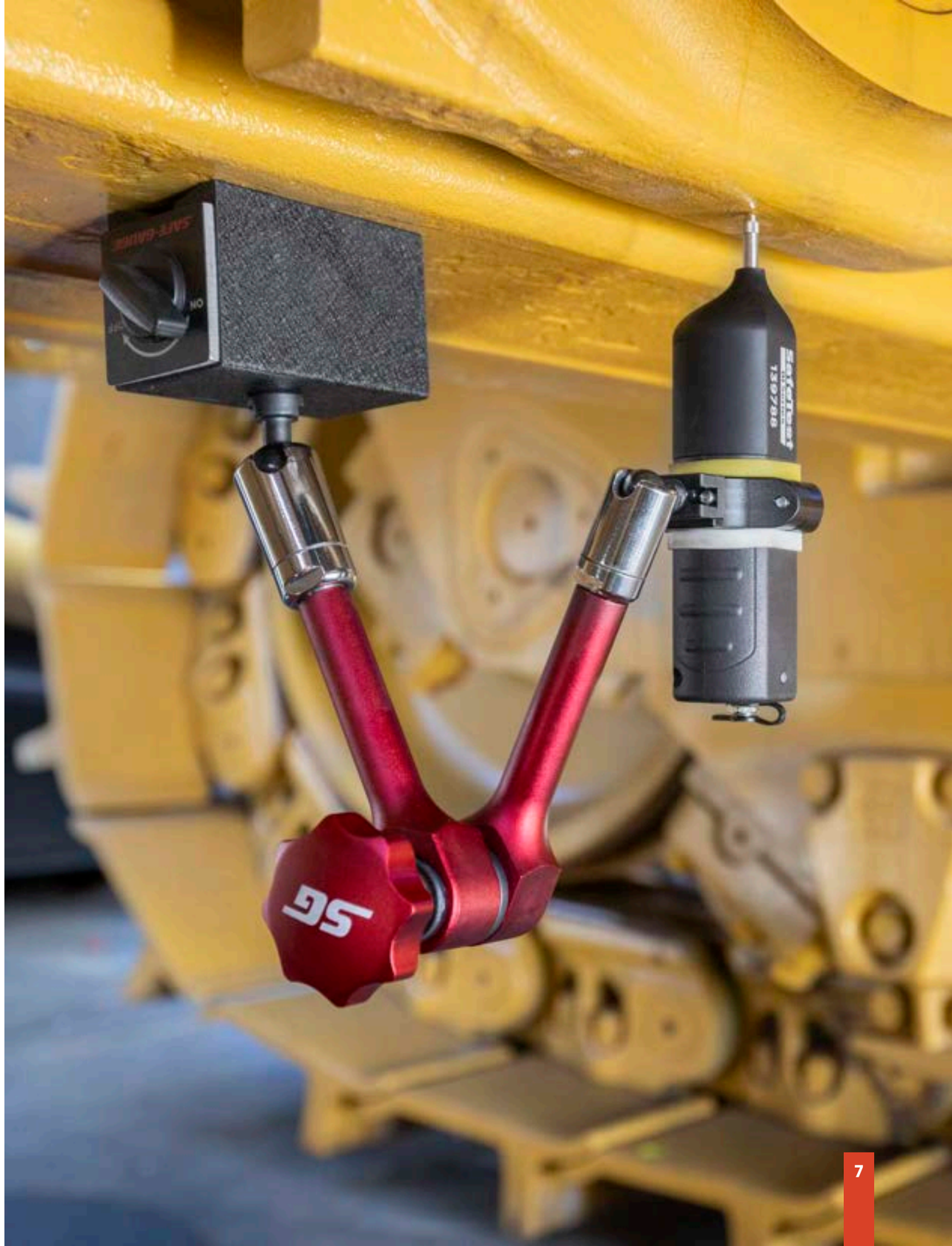

SAFE-GAUGE TACHOMETER

OVERVIEW

The SafeGauge Tachometer enables complete wireless measurement of RPM removing technicians from the live work. This tool has been proven successful for fans, pumps, drill heads and other rotating machinery components.

This rugged, non-contact laser Tachometer is designed to achieve fast, accurate measurements in the harshest environments while the technician is safely out of harm's way.



BENEFITS

- **Safety**: Removes the technician from the footprint of the machine, eliminating risk of entanglement with rotating components.
- **Productivity**: Test RPM from multiple components across the machine at once, using a single operator.
- **Reliability**: Digitally logged data captures precise RPM information.

FEATURES

- Measures up to 10,000 RPM
- Accuracy of +/- 0.01% of reading
- On target indicator
- Rugged IP rated design
- Stainless steel laser housing
- Up to 328ft (100m) Bluetooth range
- Up to 5ft (1.5m) laser operating distance

APPLICATIONS

- Engine cooling fan adjustment
- Main and auxiliary driveshaft revolution
- Drive motor speed measurement

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SAFE-GAUGE PUSH ROD

OVERVIEW

The SafeGauge Push Rod provides technicians with a way to get displacement measurements quickly and safely between two fixed points.

The versatile articulating magnetic mount allows for rapid setup time and flexibility in mounting locations.

Simply place the sensor across the measured points, zero the sensor and watch as accurate data streams into the MultiTool Pro or Mobile App.



BENEFITS

- **Safety**: Removes the technician from the footprint of the machine as they do not need to visually observe the measuring tool.
- **Productivity**: Test movement from multiple points on the machine as a single operator, with easier set-up on hydraulic cylinders.
- **Reliability**: Digitally logged data captures precise movement information, with automatic calculation of total travel.

FEATURES

- 328ft (100m) Bluetooth range
- Available in 2 - 12 channel kits
- Test multiple channels simultaneously
- 30 hour battery life

APPLICATIONS

- Off-highway truck steering linkages (ball stud) movement
- Nose cone and other mount wear measurement
- Implement pin wear measurement on all machines

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SAFE-GAUGE
LASER DISPLACEMENT

OVERVIEW

The SafeGauge Laser Displacement enables completely wireless non-contact measurement of moving parts, removing technicians from the live work area while measuring the wear in machinery components such as slew rings, ball joints and pins.

This rugged, non-contact laser displacement sensor is designed to achieve fast, accurate measurements in the harshest mining environments while out of harm's way.



BENEFITS

- **Safety**: Removes the technician from the footprint of the machine as they do not need to visually observe the measuring tool.
- **Productivity**: Test movement from multiple points on the machine as a single operator.
- **Reliability**: Digitally logged data captures precise movement information, with automatic calculation of total travel.

FEATURES

- 328ft (100m) Bluetooth range
- Measurement accuracy of 0.0039 inch
- Measures displacement with a measurement span
- of 1.18in, between 1.38in and 2.56in from laser aperture.
- Rugged IP67 design

APPLICATIONS

- Excavator swing bearing deflection
- Engine mount wear measurement
- Runout on spinning components (non-contact)

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SAFE-GAUGE INSPECTION CAMERA

OVERVIEW

The SafeGauge Inspection Camera gives you a second set of eyes on components in crush-risk and confined spaces, all from up to 164ft (50m) away. With real-time, Full HD visibility, powerful pan/tilt/zoom control through the MultiTool Pro, and the ability to reduce or even eliminate the need for spotters, tasks that once needed two or three people can often be completed by just one.



BENEFITS

- **Safety**: Removes the technician from the footprint of the machine by acting as a set of eyes where you don't want a human to be.
- **Productivity**: Visually inspect from a central location, allowing multiple people to observe.
- **Reliability**: Recorded video capability allows the sharing of footage, allowing others to see exactly what you do.

FEATURES

- 164ft (50m) WiFi range
- 360°, Full HD video resolution (4K recordings)
- Pan, tilt and zoom capability

APPLICATIONS

- Inspection of engine bays and mechanical components
- Attachment or alignment of components
- Increased visibility while using forklifts

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SAFE-GAUGE
SAFESWITCH

OVERVIEW

The SafeSwitch lets you remotely and wirelessly change pump positions during hydraulic tune-ups on Liebherr excavators*, without running long cables back to the cab.

Connecting directly to the X104 and X105 connectors, the SafeSwitch pairs with the MultiTool Pro, which acts as a wireless remote so pump positions can be switched from a safe distance.

Used alongside SafeGauge Pressure Transducers, technicians can monitor pump pressures and switch between pump positions in real time, all from the MultiTool Pro.



BENEFITS

- **Safety**: Removes the trip hazard of a traditional cabled box.
- **Productivity**: Reduced set-up and pack down time compared to traditional tooling.
- **Reliability**: Digitally logged pressures contextualised with SafeSwitch Pump Position readings.

FEATURES

- IP67-rated rugged design
- Up to 10 hours of battery life
- 328ft (100m) Bluetooth range

APPLICATIONS

- Hydraulic tune ups on Liebherr excavators*
- Switch pump flow rates wirelessly from the cab

**Visit our website for a list of compatible Liebherr excavators.*

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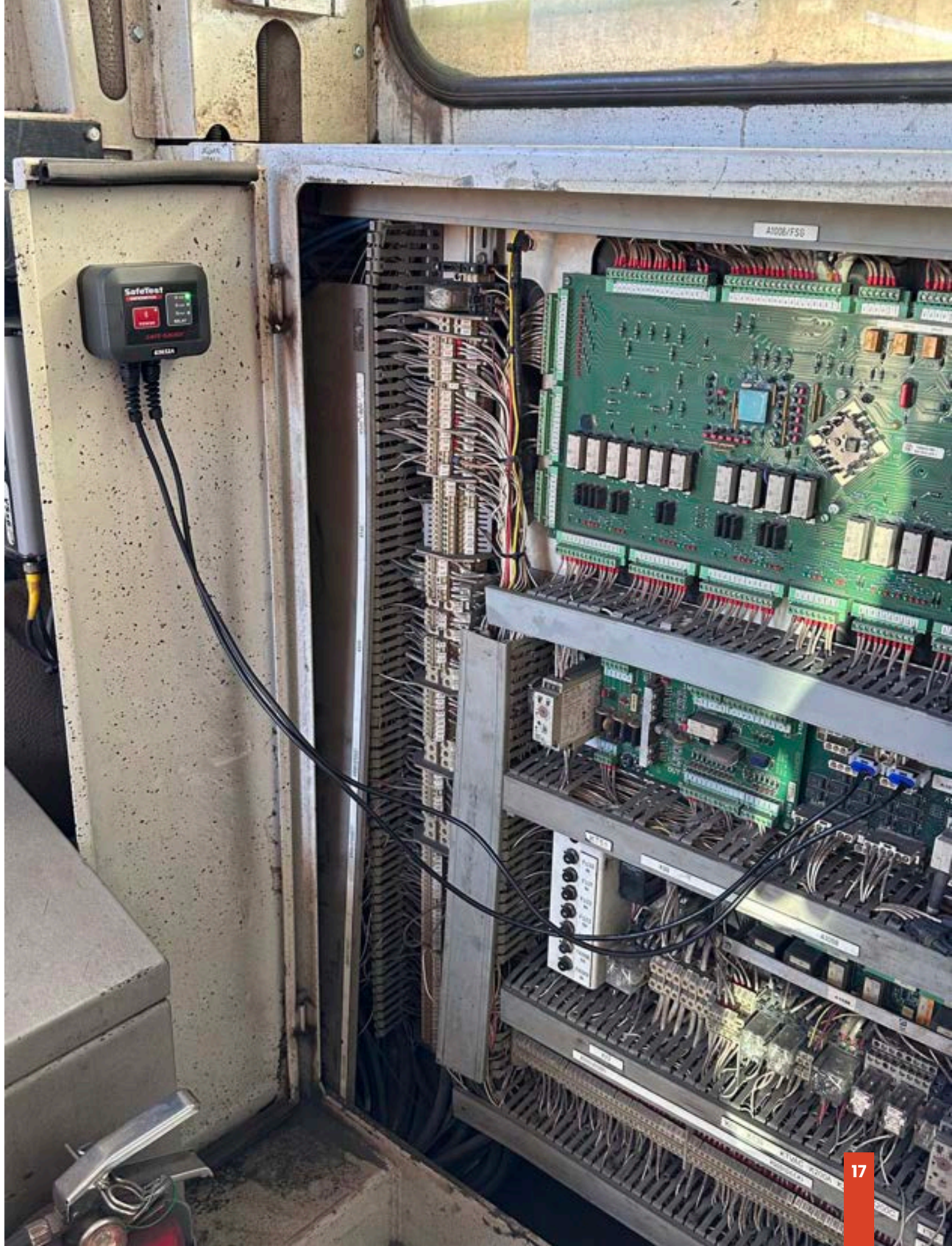

SAFE-GAUGE FLOW METER

OVERVIEW

The SafeGauge Wireless Hydraulic Flow Meter removes technicians from the live work area when troubleshooting and testing hydraulic systems in mobile and fixed plant, such as pumps, valves and motors.

It allows technicians to remotely adjust the load on a hydraulic system while monitoring the live flow, pressure and temperature readings.

BENEFITS

- **Safety**: Removes the technician from the line of fire, eliminating fluid injection risk while manually adjusting load on a flow meter.
- **Productivity**: Wireless load adjustment allows single operator testing. Less time climbing up and down from the cab.
- **Reliability**: Digitally logged pressure, temperature, and flow with corresponding machine load captured provides precise machine information.

FEATURES

Flow: 567 lpm (150 gpm)
Pressure: 420 bar (5946psi)
Temperature: -4 to 212°F (-20 to 100°C)
Bluetooth: Up to 328ft (100m)
IP Rating: IP65

APPLICATIONS

- Testing and setting up hydraulic systems in mobile and fixed plant
- Testing flow and pressure for attachments/aftermarket accessories on excavators
- Monitoring the performance of, and troubleshooting/diagnosing faults in hydraulic systems

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MultiToolPRO

OVERVIEW

The SafeGauge MultiTool Pro takes Elimination of Live Work (ELW) to the next level - allowing maintenance technicians to seamlessly connect and monitor up to 12 SafeGauge sensors simultaneously, from up to 328ft (100m) away.

The intuitive ‘plug-and-play’ touchscreen interface comes packed with a host of new features, including data-logging and graphing, with the ability to generate comprehensive reports that can be exported and shared via in-built cloud connectivity.



FEATURES

- Connect up to 12 SafeGauge sensors simultaneously
- Real time data logging and graphing
- Create custom reports with sensor comparison
- Export data and save machine history
- Rugged IP68 designed device - heavy duty applications
- Intuitive touch-screen interface with plug and play setup



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MobileAPP

OVERVIEW

The SafeGauge Mobile App connects seamlessly with SafeGauge wireless sensors, giving technicians real-time visibility of critical test data directly from their mobile device.

Designed for field use, the app enables safer, faster, and more informed maintenance by allowing users to monitor multiple measurements without being near live machinery.

With a simple and intuitive interface, technicians can easily connect to sensors, view live readings, and track performance with precision.

Built for reliability and security, the SafeGauge Mobile App supports smarter decision-making, improved efficiency, and safer testing practices across demanding industrial environments.



FEATURES

- Easy connection to SafeGauge sensors
- Up to 328ft (100m) range
- Up to 4* paired sensors
- Real-time data monitoring
- Digital and graph-based views
- Intuitive interface for effortless navigation
- Reliable and precise sensor readings
- Secure data handling and storage

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CASE STUDY

MacKellar Group improves safety and efficiency with SafeGauge.

Client: MacKellar Group
Location: QLD, Australia
Application: Elimination of Live Work (ELW)
Solution: SafeGauge Pressure Transducers & Dial Indicators

OVERVIEW

MacKellar Group implemented SafeGauge across its Middlemount and Carmichael mining operations to improve live-testing safety and increase maintenance efficiency.

THE CHALLENGE

Live testing exposed workers to:
- High hydraulic pressure and hot oil
- Burn and crush risk
- Working in the line of fire
- Personnel positioned under live machinery

"Without SafeGauge's products, our workers would be in the line of fire. The SafeGauge products allow us to get our people right out from in front of the machines; without them, there's a chance of them getting injured or burned."

"When the machines are running, there's a lot of high pressure and hot oil around, which are obviously quite dangerous. With SafeGauge products, operators can go and sit up in the cab of the machine and are completely away from the source."

"The remote tools that monitor hydraulic pressure were particularly handy on the excavators. Without them, our teams would be stationed literally under the machines while they checked them and if something moved, it would be a horrible end to that story."



THE SOLUTION

MacKellar adopted the below SafeGauge kits:
- Pressure Transducer Kit (6-channel)
- Dial Indicator Kit (4-channel)
- MultiTool touchscreen monitor

SAFEGAUGE CAPABILITIES

- Remote Bluetooth monitoring
- Simultaneous multi-channel testing
- Digital recording and storage
- Testing from up to 50m away, outside the line of fire

RESULTS

- Workers removed from hazardous zones
- Faster measurement and data capture through digital recording
- Reduced errors due to electronic readings and storage
- Maintenance records transferred and shared more quickly
- Faster overall maintenance and servicing process
- Reduced downtime
- Machines returned to operation sooner

LOOKING FORWARD

"At the end of the day, safety on a site is priceless, and I can see us using SafeGauge for a long time yet."



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