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Mining Sensor Solutions

for asset monitoring and maintenance optimisation

GILL

WearDetect

OIL DEBRIS SENSORS, CONTINUOUSLY MONITORING FERROUS WEAR

- Earliest maintenance warnings protect critical assets
- Captures and measures both fine & coarse ferrous wear debris
- WearDetect sensor data can be used to predict and schedule maintenance actions
- Proven high return on investment by minimising unplanned downtime
- Easy to install and straightforward to interpret results
- Additional oil temperature or water presence measurement



WearDetect monitors ferrous wear and communicates via DCS/PLC/CMMS or IoT systems

LevelPro

ROBUST, RELIABLE LIQUID LEVEL SENSORS

- Accurate and reliable, continuous liquid level measurement
- Durable in aggressive liquids and environments
- Stable measurement in moving liquids
- Wide operating temperature range
- High quality stainless steel construction with sealed electronics
- Tank profiling system for irregular tank shapes



LevelPro continuously monitors liquid levels in harsh and moving environments



Mining Applications

Gill offers systems that allow customers to achieve total asset monitoring, to deliver optimised maintenance and operations. Gill products are based on robust solid-state (no moving parts) technology, making them highly reliable for long term operation.

WearDetect oil debris sensors are proven to detect the earliest warning of the initial stages of ferrous wear.

WearDetect provides real-time, continuous condition monitoring of critical assets and is primarily used in oil based systems, such as gearboxes.

Gill liquid level sensors provide highly accurate, reliable and continuous contact based measurement in a wide range of liquids, including fuels, oils and coolants.

LevelPro sensors are robust, built in stainless steel with sealed electronics, making them ideal for use in extremely hostile conditions.



Equipment fluids level sensors

Mining operations are some of the most demanding applications, both in terms of the loads the equipment must endure and the harsh environment it is exposed to. Costs can quickly escalate if equipment breakdown whilst running. Reliable oil level monitoring helps prevent unexpected breakdowns.

LevelPro capacitive liquid level sensors are tough, accurate, and built for extreme hostile conditions. They can be relied on to deliver durable performance, precise measurement and increased efficiency of equipment.

[READ MORE](#)



Conveyor gearboxes monitoring

Keeping production lines running depends on the continuous operation of motors and gearboxes in conveyor systems. This can lead to downtime for maintenance. Gearbox monitoring sensors help maximise uptime by tracking equipment health in real time, enabling planned servicing without disrupting operations.

WearDetect meets this need by continuously monitoring wear debris in gearbox oil, alerting maintenance teams at the first signs of wear. This allows time for corrective action and avoids costly unplanned downtime.

[READ MORE](#)



Real-time engine condition tracking

Cranes, dump trucks, bulldozers, and other heavy-duty equipment operate under extreme loads and harsh conditions.

Real-time wear sensor WearDetect can be fitted to gearboxes and engine systems to monitor oil condition and gear wear, detecting both normal and abnormal patterns.

This continuous insight enables early identification of issues in gearboxes and transmissions, allowing maintenance teams to act quickly, plan servicing without disrupting operations, thus keeping costs down.

[VIEW APPLICATION](#)

WearDetect

For further information on **WearDetect** and **LevelPro**, including manuals, datasheets and software, please click here:



Technical specifications

- Real-time and continuous condition monitoring
- Communicates with DCS/PLC/CMMS or IoT systems
- Outputs: 0-10V, 4-20mA, CAN, Modbus
- Captures and measures both fine & coarse ferrous wear debris
- Multiple thread adaptor options for easy installation

LevelPro

Technical specifications

- 316 stainless steel construction
- Accuracy +/- 2% FSD @20°C
- Probe lengths available between 100mm & 2000mm
- Mounting: SAE 5-bolt, 1.125" UNF, 1.25" BSP or 2" NPT thread options
- Suitable for top of tank or inverted installation

Where to buy

Gill Sensors & Controls products are available directly or through a worldwide network of distributors.

To discuss your needs and be put in contact with the most appropriate distributor, contact us at contact.gsc@gill.group



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