2CENSOR

2C-PROBE

Product Portfolio – 2C-PROBE

ABRASIVE WEAR MOITORING

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The Original Patented Design. Developed for internal pipe wear monitoring. Migrating into wear plates, tiles and liners. Integrated into chutes, hoppers and bins.

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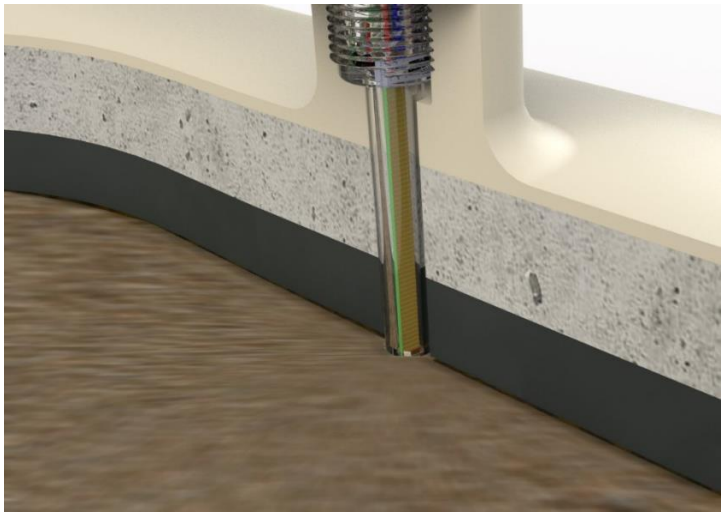
The Probe

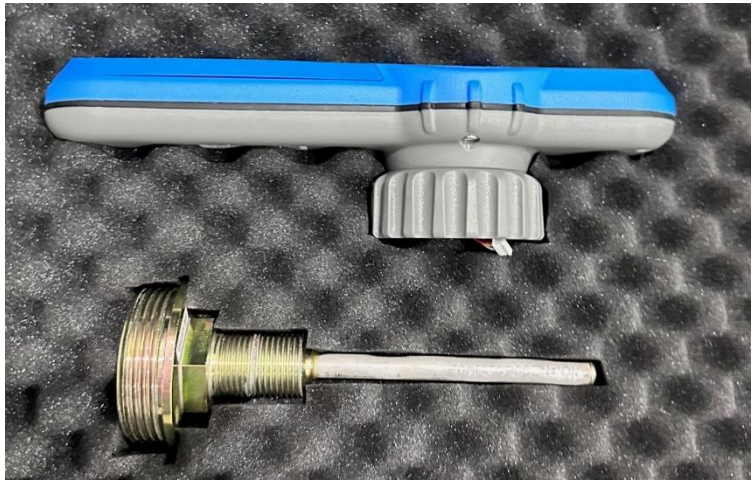
The probe is installed into the wear lining by penetrating the liner with a 6-8mm diameter hole. The probe penetrating the wear liner plugging the hole and becoming a part of the liner. Wearing with the liner. Probe material is manufactured to wear at the same rate as the liner being monitored.



Sensor

The probe is made in multiple lengths. Installed at known points of failure. The sensor measuring each millimetre of wear. Providing specific data.

The sensor is protected by a casing specific to the application it has been designed for.



Transmitter

Via a radio signal the transmitter communicates the data back to a gateway. The signal uses country specific radio frequencies to comply with the country's regulatory authority. The system uses LORAWAN protocols. LORAWAN is a Low Power, Wide Area (LPWA) networking protocol designed to wirelessly connect battery operated 'things' to the internet in regional, national, or global networks.

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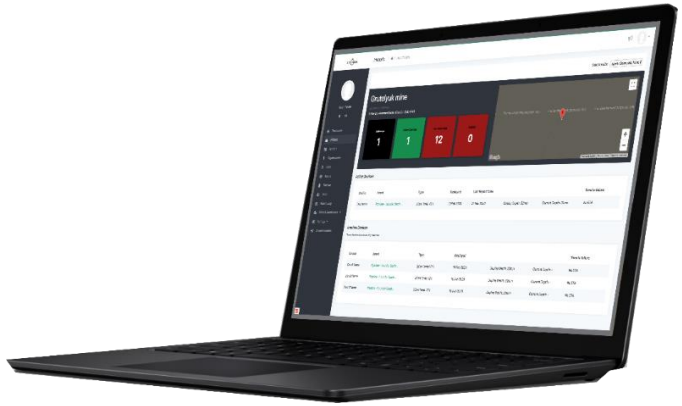
DATA

The data is transferred to our custom software via a LORA gateway. Connected to the internet. Presenting on a dashboard the current condition (Each 1mm of wear).

The data through AI algorithms also provides predictive maintenance. Forecasting an estimated time to failure. Alarms sent through to the maintenance team. Allowing for lead time on supply and to plan replacement on a scheduled maintenance day.

We provide 100% ownership of the data to the customer. If our software is not required, we have enabled our system to provide the data directly into our clients own reporting systems.



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