

GET.Trakka

GET MONITORING

GET Trakka provides both immediate GET loss alarms and the ability to locate lost components on the ground.

GET Trakka™ was created through extensive research, collaboration, and testing with mine sites. It provides the ultimate solution to detecting broken and lost GET in real-time to prevent crusher events and machine downtime.

- ✓ GET loss alarms
- ✓ Prevent crusher downtime events
- ✓ Locate lost GET
- ✓ Safety and prevention

THE MOST ADVANCED PRODUCTIVITY SOLUTIONS

GET Loss Detection

The GET Trakka solution is the only product package offering GET detection both on and off the bucket. Using embedded sensors and intelligent engineering, the GET Trakka solution gives you the GET control you've never had access to before. The system provides real-time in cab alarms to ensure the operator can make effective on-the-spot decisions to ensure your mine site reduces crusher events, equipment downtime and increases productivity. Undetected GET losses can lead to catastrophic crusher events causing costly mine site closures and delays.



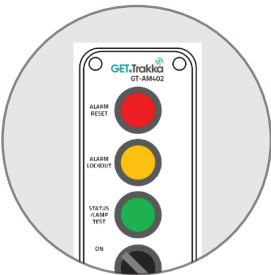
Installation Schematic

Receiver Gateway

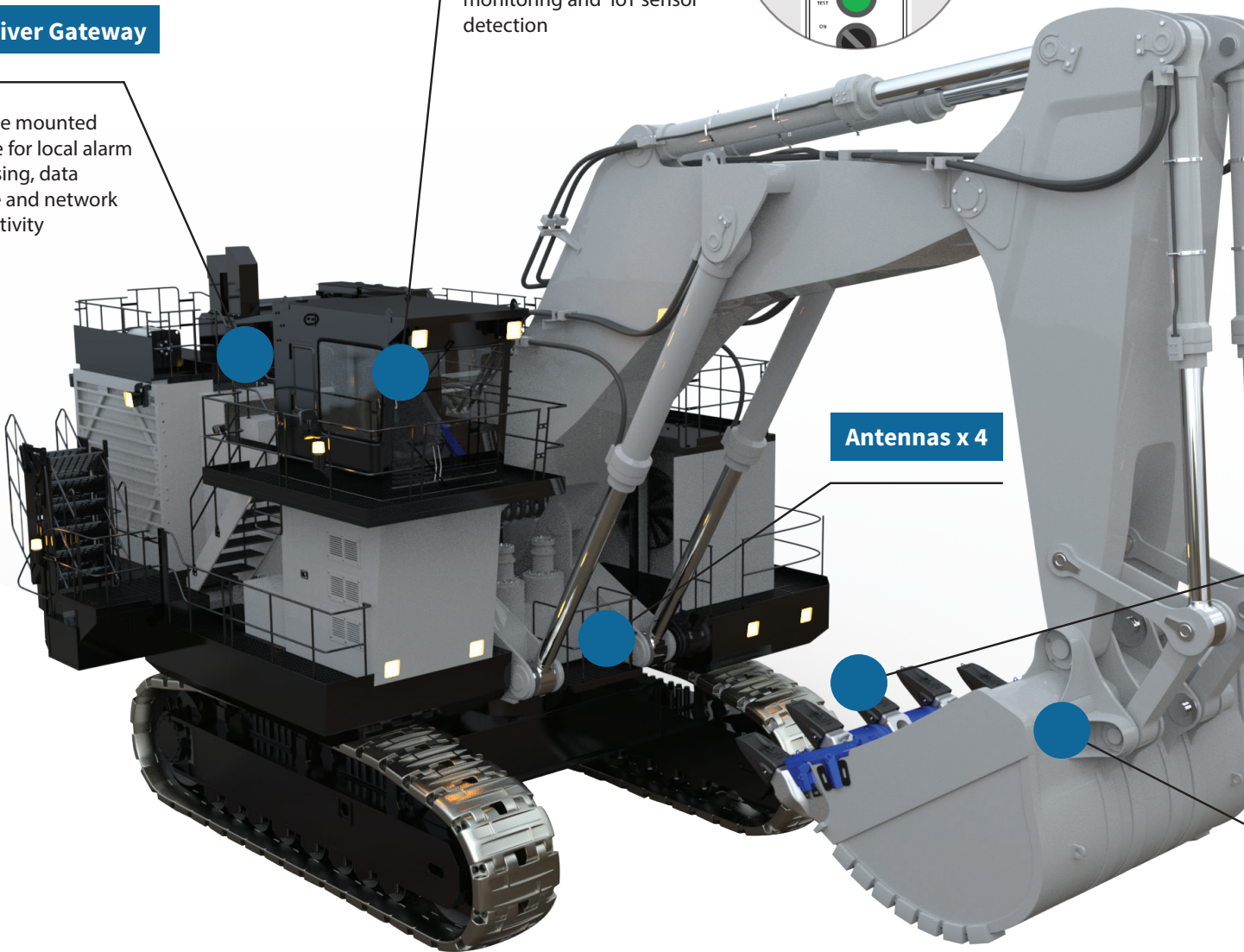
Machine mounted module for local alarm processing, data storage and network connectivity

In-cab Alarm Module

Long life sensor for bucket monitoring and IoT sensor detection



Antennas x 4





Sensor inserted into GET which allows detection

On the bucket/machine

Rugged embedded IoT GET sensors communicate with machine gateway to detect if GET is still locked in position

Off the bucket

When GET goes missing, the portable reader can be activated to rapidly establish the location of the missing component

Portable Reader

Hand-held device for sensor activation and GET locator search



GET IoT sensors

Rugged wireless sensor suits all GET component types including teeth, lip shrouds and wing shrouds. These IoT sensors move information from the GET to our CR databases.



Bucket Sensors x 2

Long life sensor for bucket monitoring and RFID identification

Safety and Prevention

GET loss events can present significant safety issues to those retrieving the GET
With GET Trakka's immediate alarm notifications, rapid action can take place and GET can be retrieved easily and without injury.

Continued digging after GET losses exposes the lip to premature wear. GET Trakka allows rapid GET loss detection and ensures the machine stops digging and new GET can be installed before digging recommences, saving on costly maintenance.

GET Trakka detects GET before it reaches and damages crusher machines which prevents downtime and increases overall productivity.

- ✓ Breakage alarm
- ✓ Eliminate crusher events
- ✓ Reduced hours of in-pit exposure
- ✓ No dangerous GET extractions in Crusher



PRODUCT ANALYSIS & REPORTING

High value digging and haulage data is captured by the network of wireless sensors. GET Trakka™ provides tracking reports on individual loss events and the times and locations these occurred to enable a root cause analysis of the breakage.

Other reports can consist of individual component data, change out times and the operational effectiveness of your GET. Customers also have access to a dashboard that displays custom GET data to help with your data driven decisions and applications.

PRODUCTION PLUS SYSTEM SUMMARY REPORT

Client: Rising Uranium Limited | Start Date: 20-Oct-2020 00:00 | Report #: 139
Site: Rising Uranium | End Date: 20-Nov-2020 00:00 | Total Report Hours: 148

Shovel ID	Component	Index Position								Priority	Comments
		1	2	3	4	5	6	7	8		
SP 13	Bucket	-								LOW	Bucket Sensor 2 Requires Installation & Activation
	Teeth	E0467	E0468	E0469	E0500	E0501	E0504				Incident Sensors Installed (Lip Shroud / Side Bar Only)
	Lip Shrouds	E0505	E0506	E0503	E0504	E0505					
	Side Bars	E0503	E0504							HIGH	Two Shovel Antennas have been Disconnected / Damaged, Requires Maintenance
SP 14	Bucket	E0505	E0506							HIGH	End of Life Reached (2-14), Requires Sensor Replacement
	Teeth	E0505	E0506	E0503	E0504	E0505	E0506			HIGH	End of Life Reached (21-22), Requires Sensor Replacement
	Lip Shrouds	E0500								HIGH	End of Life Reached (2-14), Requires Sensor Replacement
	Side Bars									HIGH	End of Life Reached (21-22), Requires Sensor Replacement
SP 15	Bucket	-								LOW	Bucket Sensor 2 Requires Installation & Activation
	Teeth	E0507	E0508	E0509	E0510	E0511					No GET Installed on 10 and 11 due to Mechanical Damage
	Lip Shrouds									HIGH	Two Shovel Antennas have been Disconnected / Damaged, Requires Maintenance
	Side Bars									HIGH	End of Life Reached (21-22), Requires Sensor Replacement
SP 16	Bucket	E0506	E0507								Antenna / Cabling Damage on Flip Panel Antenna, Requires Maintenance
	Teeth	E0511	E0512	E0513	E0514	E0515	E0517				Expired Sensors Installed
	Lip Shrouds	E0433	E0434	E0435	E0436	E0437					Expired Sensors Installed
	Side Bars	E0436	E0437							HIGH	Antenna / Cabling Damage on Flip Panel Antenna, Requires Maintenance
FE 15	Bucket	E0433	E0434								Antenna / Cabling Damage on Flip Panel Antenna, Requires Maintenance
	Teeth	E0512	E0513	E0514	E0515	E0516	E0517	E0518			Incident Sensors Installed (Lip Shroud / Side Bar Only), Excluding L4 & L6
	Lip Shrouds	E0512	E0513	E0514	E0515	E0516	E0517	E0518			
	Side Bars										

Schedule reports to provide actionable information:

- ✓ Maintenance Scheduling
- ✓ GET Loss Events
- ✓ Performance Benchmarking
- ✓ Productivity

	Production	Maintenance
Bucket Scoops	✓	✓
Machine Performance	✓	✓
Maintenance Planning		✓
GET Breakage	✓	✓
Mine & Plant Uptime	✓	
GET Change Out interval		✓
Operator Efficiency	✓	
GET Component Reliability		✓
GET Usage		✓
Predicted Change Out		✓
GET Metrics	✓	
GET Digging Temperature	✓	✓
High Impact Events		✓
Truck Cycle Times	✓	

CR Digital is transforming mines with cutting-edge technology.

We develop industry-leading digital technology solutions for the mining industry, working together with the world's best miners towards a safer, more productive, and sustainable future.

Start the conversation



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