gPIMS®

Fully Autonomous Corrosion Area Monitoring

Revolutionise your pipeline integrity programme with GUL's proven Monitoring Technology. Backed by over two decades of successful field deployment, gPIMS® delivers what others can't: long-term, accurate, real-time **Monitoring you can trust.**

The gPIMS® Advantage

Our patented **gPIMS®** system enables early detection of active corrosion—well before tolerance limits are breached. With seamless sensor-to-desktop delivery, it supports a proactive, data-driven approach to asset integrity management that sets us apart.

✔ Cost-Effective Regulatory Compliance
- **Immediate ROI:** Reduce dig frequency & avoid high-risk repeat access (e.g. excavations, rope access)
- **Minimise Environmental Impact** through targeted interventions

✔ Real-Time Insight
- **Full-coverage, immediate data** across the monitored volume on corrosion, deposition, and wall loss
- **No lag** from coupon-based assessments or reactive inspection cycles

✔ State-of-the-art Data Management Infrastructure
- Supports integration of additional field metrics - CP, induced AC - through **Monitoring Studio**
- Fully **compatible** with Operator Data Platforms

✔ Actionable Corrosion Management
- Real-time corrosion rate tracking enables **proactive chemical dosing control**, cutting unnecessary spend.
  - Validate biocide/inhibitor performance instantly - Confirm the effectiveness of your corrosion inhibition strategy

OUTPERFORMING THE COMPETITION

Long-Term Reliability
- 20+ years proven sensor longevity—outlasts & outperforms competing solutions
- Delivers stable, drift-free measurements; unaffected by ILI tool interference
- No galvanic corrosion risk from metal contact—will not compromise your pipe

Integrated Visibility
- Direct sensor-to-desk access integrated with end-client enterprise reporting
- Clear dashboards, historical trend visibility, and audit-ready reporting

Insights Beyond Corrosion
- Monitor deposition or solids before they impact flow or create corrosion threats
- Drive early intervention and more informed integrity planning across assets

GUIDED ULTRASONICS LTD.

25+ YEARS
Since 1999

Solar-Powered FCUs – connected to sensors installed on buried pipelines

Sensor-to-desk insights through Monitoring Studio

FCU - Field Control Unit

Configuration	USB	4G	EX
Number of Channels		16	
Sensor Compatibility	gPIMS® Sensors		gPIMS® EX Sensors
Typical Battery Life	500 Collections	250 Collections	500 Collections
Solar Panel Charging	Compatible with GUL Supplied Panel		Not Available
Cellular Modem *(LTE/UMTS/GSM)*	--	Queltec EG21-G	--
Internal Data Storage	Minimum 8GB (Archives last 2000 Collections)		
Removable Data Storage	USB Key	USB Key	--
Configuration Interface		Wi-Fi	
Intrinsic safety ATEX/UKEX/IECEx [1]	--	--	II 1G Ex ia IIB T4 Ga -40°C ≤ Ta ≤ +70°C [-40°F ≤ Ta ≤ +158°F]

gPIMS® Sensor Rings

Model	EFC	EX	HT	EX-HT
Number of Channels		16		
Nominal Pipe Size (NPS)	3" to 72" (DN 80 to 1800)	6" to 48" (DN 150 to 1200)	2" to 48" (DN 50 to 1200)	
Pipe Thickness	3 mm to 50 mm [0.12" to 2"]			
Operating Temperature	-40°C to 90°C [2] [-40°F to 194°F]		-40°C to 200°C [-40°F to 392°F]	
Radial Clearance	25 mm [1"]		40 mm [1.6"]	
Sensor Axial Length	200 mm [8"]		220 mm [8.7"]	

Certified (ATEX/IECEx)	EX	EX-HT
Intrinsic safety ATEX/UKEX/IECEx	⟨Ex⟩ II 1G Ex ia IIB T4 Ga (-40°C ≤ Ta ≤ +90°C) ⟨Ex⟩ II 1G Ex ia IIB T3 Ga (-40°C ≤ Ta ≤ +130°C)	*Up to 200°C [392°F]* - ⟨Ex⟩ II 1G Ex ia IIB T4 Ga (-40°C ≤ Ta ≤ +90°C) *Up to 179°C [354°F]* - ⟨Ex⟩ II 1G Ex ia IIB T3 Ga (-40°C ≤ Ta ≤ +130°C)

[1] *For use in any zone. IECEx EXV 21.0049X, 21ATEX0947X and 21UKEX0949X.*
[2] *130°C [266°F] with special order*

www.guided-ultrasonics.com