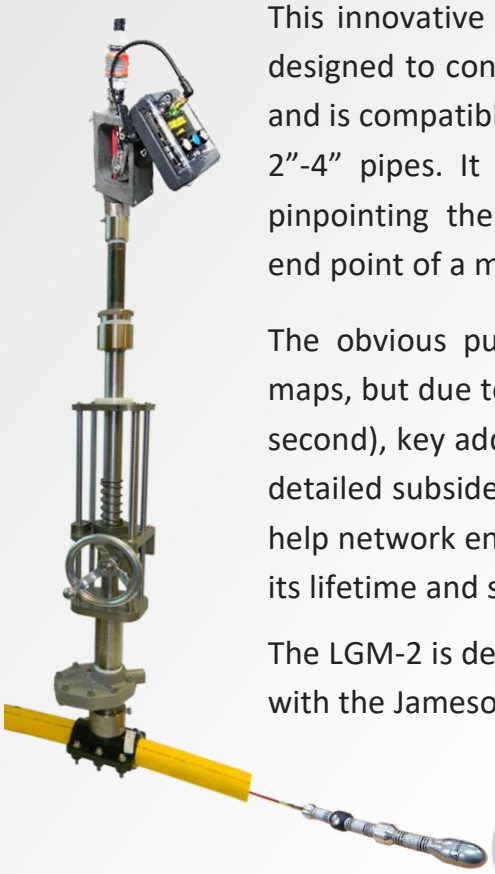
LGM-2 Live Gas Mapper

The LGM-2 a unique mapping designed to map buried live gas pipes with an ID range of 50mm up to 100mm (2” to 4”). From a single hot tap entry point it can map a gas pipe up to 300 meters/1000’ length in each direction, thus capturing data and the geographical location of 600 meters/2000’ of live gas pipe.



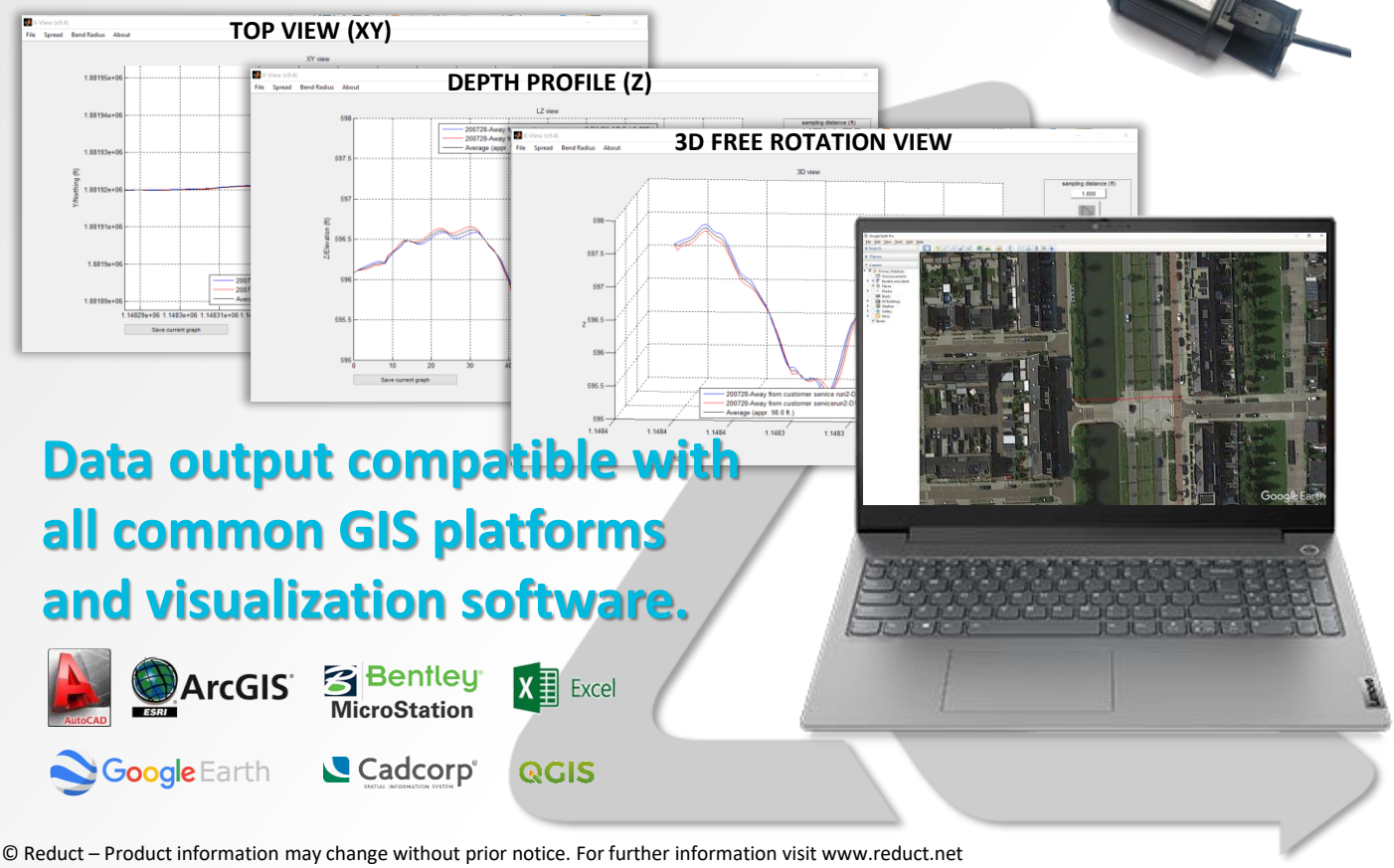
This innovative 320mm long articulated probe is designed to connect to a standard fiber push rod and is compatible with most standard hot taps for 2”-4” pipes. It has a built-in 33kHz beacon for pinpointing the start point, guide point and/or end point of a measurement.

The obvious purpose for using the LGM-2 is to obtain accurate as-built maps, but due to the high-frequency logging rate of 100Hz (100 samples per second), key additional information such as accurate bend radius and highly detailed subsidence analysis (over time) is a standard feature . This data will help network engineers with the integrity management of the pipe, increase its lifetime and safety and reduce 3rd party damage risk.

The LGM-2 is delivered with an external odometer system that is compatible with the Jameson™ 16-DT-2-C directional entry tool.

LGM-2 Technical specifications

Technology	MEMS based inertial navigation
Length	12.6” / 320mm
Diameter	1.3” / 33mm
Weight	1.4lb. / 650g
Water resistance rating	IP66
Data capture rate	100Hz
Communication protocol	USB
Operating temperature	32 to 122 °F / 0 to 50°C
Max. pulling force	150lb. / 50kg
Recommended speed	3ft/s - 1m/s
Max. acceleration	5g
Max. inclination	-45° to +45°
Power supply (Nominal)	3.7V Li-ion battery (450 mAh)
Power autonomy	>5 hrs.
Beacon Signal frequency	33kHz
Power supply	3V CR1220
Power autonomy	>10 hrs.
Length encoder	Remote (electronics included)



Data output compatible with all common GIS platforms and visualization software.

AutoCAD · ArcGIS · Bentley MicroStation · Excel · Google Earth · Cadcorp · QGIS