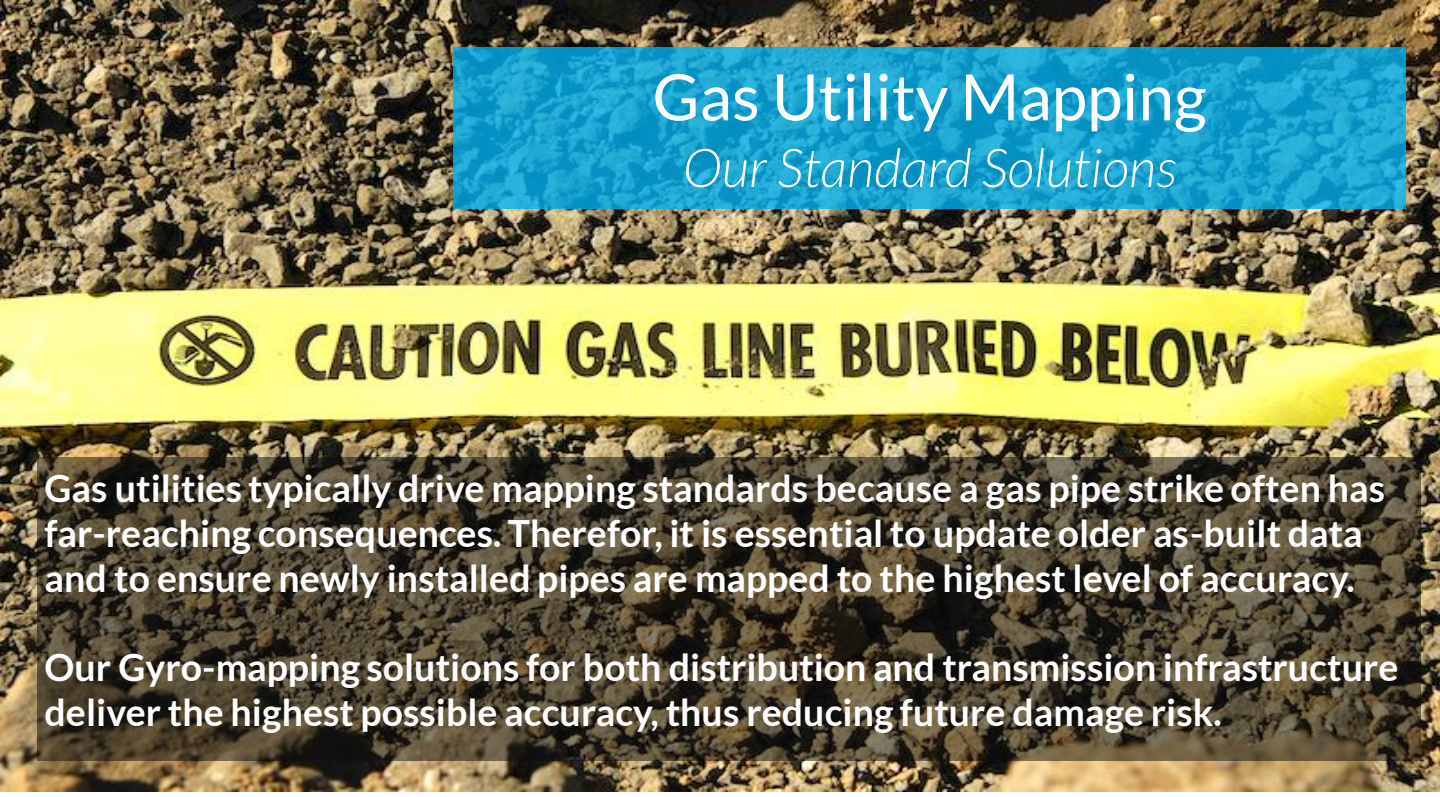
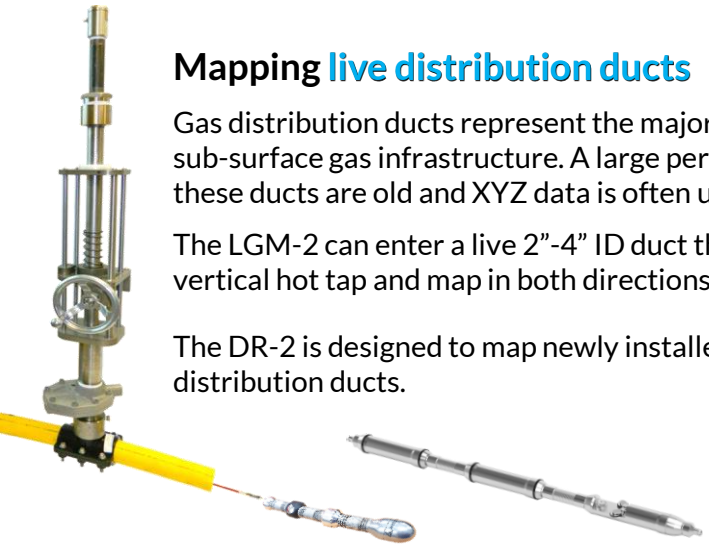
Gas Utility Mapping
Our Standard Solutions



Gas utilities typically drive mapping standards because a gas pipe strike often has far-reaching consequences. Therefor, it is essential to update older as-built data and to ensure newly installed pipes are mapped to the highest level of accuracy.

Our Gyro-mapping solutions for both distribution and transmission infrastructure deliver the highest possible accuracy, thus reducing future damage risk.

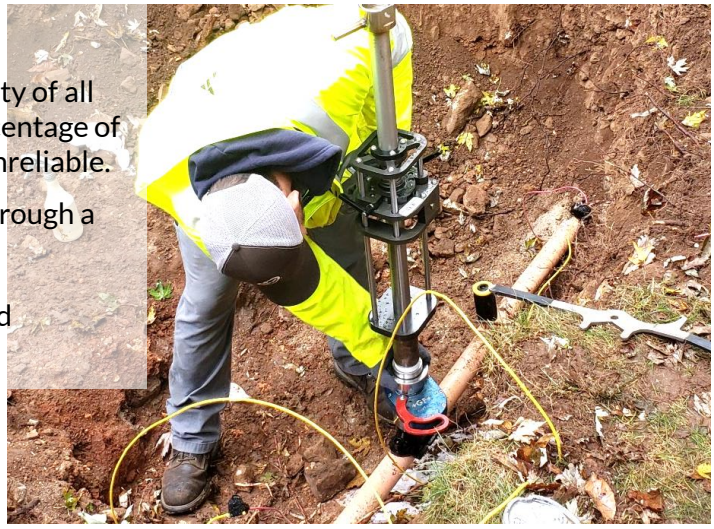


Mapping live distribution ducts

Gas distribution ducts represent the majority of all sub-surface gas infrastructure. A large percentage of these ducts are old and XYZ data is often unreliable.

The LGM-2 can enter a live 2”-4” ID duct through a vertical hot tap and map in both directions.

The DR-2 is designed to map newly installed distribution ducts.



Mapping transmission pipes

Gyro-mapping not only provides a precise XYZ location, our systems also calculate a highly accurate bend radius along the segment, which is essential data for any pressurized pipe, and increasingly a requirement prior to contractor hand-over.

The DR-4 is the solution for mapping all newly installed gas transmission pipes

REDUCT

Gas Pipe Mapping Solutions

Technical Specifications

Common specifications across all systems

Mean travelling speed	1 m/s - 3 ft/s	Inclination range	+45° to -45°
Data logging rate	100 Hz	Maximum acceleration	5g
Operating temperature	0°C to 50°C / 32°F to 120°F	Standard Software	X-Traction and X-View
Output Compatibility	AutoCAD, ArcGIS, Bentley MicroStation, Excel, Google Earth, Cadcorp, QGIS		

LGM-2 specifications

Probe length	320mm/12.6”	Gyroscope type	MEMS
Probe outer diameter	33mm / 1.3”	Max. segment length	300m / 1000’
Probe weight	0.65kg / 1.4 lb.	Pipe ID range	50-100 mm /2"- 4"
Integrated beacon	33kHz	Battery type/Autonomy	Li-ion / >5 hours

DR-2 specifications

Probe length	±800mm/31.5”	Gyroscope type	FOG
Probe outer diameter	36mm / 1.4”	Max. segment length	Recomm.1,500m/5,000’
Probe weight	2.0kg / 4.4 lb.	Pipe ID range	40-75 mm / 1.6"- 3.0"
Max. pulling force	75kg / 165 lb.	Battery type/Autonomy	Li-ion / 4 hours

DR-4/WUS-0320 Combo specifications

Probe length (ex. wheels)	490mm / 19.3””	Gyroscope type	FOG
Probe outer diameter	42mm / 1.7”	Max. segment length	Recomm.1,500m/5,000’
Probe weight	2.0kg / 4.4 lb.	Pipe ID range	90-500mm / 3.5"- 20.0"
Max. pulling force	150kg / 330 lb.	Battery type/Autonomy	Li-ion / 5 hours