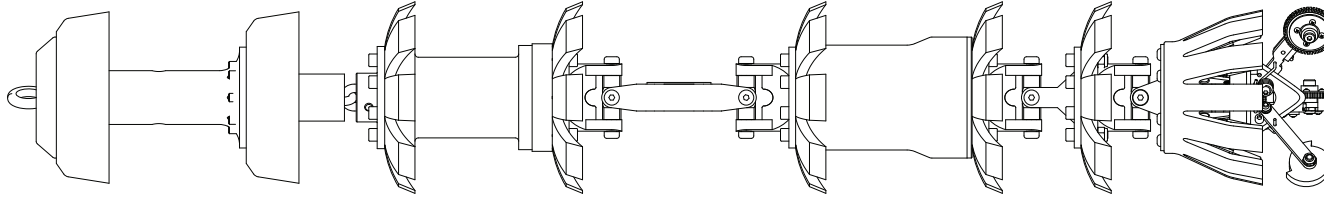




DdL™ DIGITEL DATA LOGGER

6 inch - Technical Specifications



DESIGN

Tool Attributes	
Odometer Channels	2
Odometer Resolution	500 times a second sampling
Data Storage	Flash Data Storage, expandable
Inertial Mapping	GIS/GPS Mapping & Geospatial Reporting

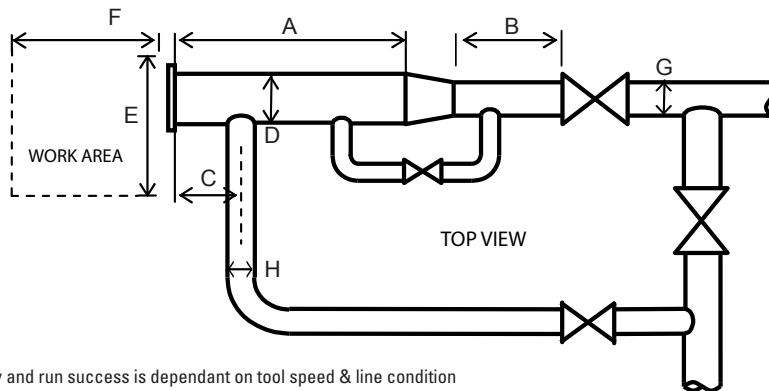
DATA SETS (# Sensors)		OPERATIONAL	
Caliper	12	Max. Pressure	1875 psi (12928 kPa)
Gyros	3	Temp. Range	32 to 170 °F (0 to 77 °C)
Accelerometers	3	Velocity	≈ 0.1 to 10 mph (0.04 to 4.0 m/s)
		Required Differential Pressure	30 to 100 psi (207 to 689 kPa)

PIPELINE GEOMETRY REQUIREMENTS		in (mm)
Minimum Local Bore		25% of pipe O.D.
Min. Bend Radius		1.5D
Min. Bend Separation		Capable of back to back bends

IMU SPECIFICATIONS @ 3 to 8 mph (1.3 to 3.6 m/s)		DIMENSIONS	
	Gyros		TOOL RANGE
Latitude	±1 m, 1 σ	Length	49.37 in (1255 mm)
Longitude	±1 m, 1 σ	Weight	43.20 lb (20 kg)
Elevation	±1 m, 1 σ	* Run Time	34 hours
	Accelerometers		
	Additional information available upon request		

REPORTING		in (mm)
Dent/Ovality Sizing		
Dent Depth Sizing		± 0.5% of Pipe O.D.
Dent Length Sizing		± 10% of Pipe O.D.
Ovality Depth Sizing		± 0.5% of Pipe O.D.
Bend Measurement		
Angle Accuracy		± 2 degrees
Location Accuracy		
Feature to Upstream Girth Weld		± 1.00 (25)
Feature to Upstream Marker		± 60.00 (1524)
Feature Orientation		± 15 degrees
Axial Sampling		
1.5 inches (depending on line condition, tool speed, and line length).		

SUGGESTED MINIMUM TRAP DIMENSIONS in (mm)								
Traps	A	B	C	D	E	F	G	H
Launcher	61 (1549)	25 (635)	18 (457)	8 (203)	54 (1372)	121 (3073)	6 (152)	2 (51)
Receiver	61 (1549)	61 (1549)	18 (457)	8 (203)	54 (1372)	121 (3073)	6 (152)	2 (51)



Notes:

- Data quality and run success is dependant on tool speed & line condition
- Pipelines that are outside of the scope of these specifications can be assessed on an individual basis; please contact Enduro.
- Tool design may vary from image above.

* Increased run time available with additional battery packs

Data is subject to change without notice | 6" DdL 0002-4B-25985 Rev. 5
1/11/2016 - 0002-19-15550 rev 3

6 inch



ENDURO
PIPELINE SERVICES, INC.