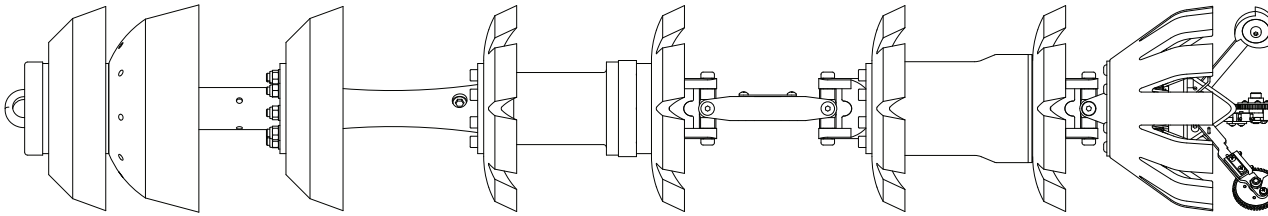




DdL™

DIGITEL DATA LOGGER

8 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

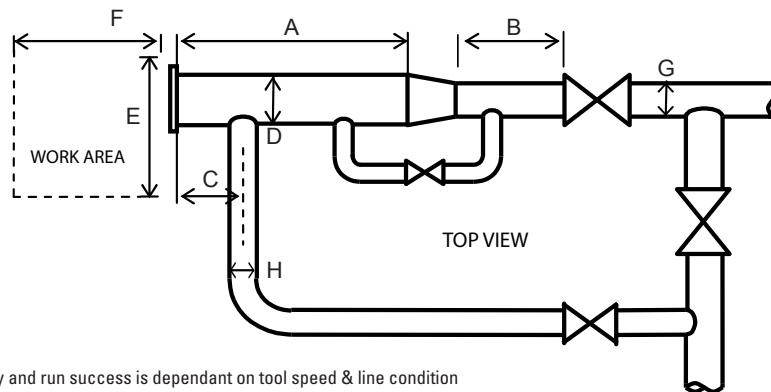
DATA SETS (# Sensors)		OPERATIONAL	
Caliper	12	Max. Pressure	1875 psi (12928 kPa)
Gyros	3	Temp. Range	32 to 170 °F (0 to 77 °C)
Accelerometers	3	Velocity	≈ 0.1 to 10 mph (0.04 to 4.0 m/s)
		Required Differential Pressure	25 to 80 psi (172 to 552 kPa)

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	
		Length	53.00 in (1347 mm)
		Weight	46.89 lb (21 kg)
Gyros	Accelerometers	TOOL RANGE	
Latitude	±1 m, 1 σ	* Run Time	34 hours
Longitude	±1 m, 1 σ		
Elevation	±1 m, 1 σ		
	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	65 (1651)	27 (686)	18 (457)	10 (254)	56 (1422)	125 (3175)	8 (203)	4 (102)
Receiver	65 (1651)	65 (1651)	18 (457)	10 (254)	56 (1422)	125 (3175)	8 (203)	4 (102)



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 | 8" DdL 0002-4B-25987 Rev. 5
1/11/2016 - 0002-19-18218 rev 4



ENDURO
PIPELINE SERVICES, INC.