



TRIDENT SMART DATA LOGGER

Product Overview

The Trident SMART Logger is a standalone environmental data logger that can be attached to any pipeline pig (currently from 6" upwards). The unit can provide a fast and precise evaluation of pipeline conditions.

An array of sensors measure and record temperature profiles, detect and locate restrictions and deposits; monitor pig behaviour; assess cleaning progress and effectiveness and verify pipeline conditions.

Trident SMART Loggers can be setup with the following sensors:

- **Accelerometer:** Measure shock loading on three axis
- **Tilt:** Gravity referenced accelerometer to measure tilt angle of the pig
- **Temperature:** Measure the temperature of the pipeline
- **Line Pressure:** Measure the drive pressure on the rear of the pig
- **DP Pressure:** Measure the differential pressure across the pig
- **Distance Measurement:** Time-based
- **Gauge Plate Status:** Damaged/ Undamaged (Timestamp)

Technical Specification	543	547
Pig Size	6" & Above	18" & Above
Dimensions	Ø45mm x 300mm	Ø70mm x 510mm
Housing Material	316 Stainless Steel Tube & End Caps (Titanium Option Available)	
Battery Type (Alkaline)	3x 'C' Cell	5x 'D' Cell
Battery Life	7 Days	22 Days
Operating Pressure	2 to 200 Bar	
Operating Temperature	-10°C to +80°C	
Sample Rate	200 Hz	
Shock Range	10g (3 Axis)	
Tilt	±90°	
3 Axis Rate Gyro	±90° in each axis	

PigView Analytics

Upon recovery of the pig, logged data is downloaded from the on-board solid state drive. The data file is then loaded into the Trident PigView Analyst software package which will allow the user to view recorded data and make assessments of the pipeline condition.

