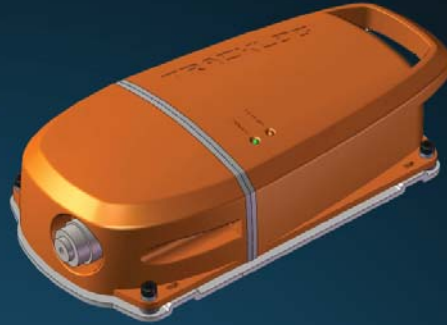


Applications:

Tracklog is a logging device that keeps track of all vital information related to a structure, vehicle or other unit that needs some kind of maintenance or track record. Tracklog acts as an “onboard secretary” that stores relevant background information about the unit, as well as keeping track of how and where the unit has been used.



Features:

The Tracklog consists of a main unit with a battery pack, accelerometers, temperature sensor, processor and flash memory mounted in a rugged housing. Despite its set of features and long battery lifetime, the Tracklog is very compact and easy to use. Several sensors can be added, using a dedicated connector. Data readout is through a USB connector.

Main sensors:

- | | |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accelerometers: | 1 MEMS Accelerometer
1 Piezoelectric Accelerometer
+/- 2/16g and +/- 200/500g range
Measure both static and dynamic accelerations, vibrations and shocks |
| Temperature sensor: | +/- 1degree accuracy, -40 to 150degrees |
| Real time clock: | Real time clock used for time stamping of all data |

Subsea housing:

- | | |
|----------------------|-------------------------------------------|
| Physical dimensions: | Approx 180 mm (L) x 90 mm (W) x 50 mm (H) |
| Weight: | 400 grams |
| Pressure rating: | 300 Bar |

Onshore housing:

- | | |
|----------------------------|-------------------------------------------|
| Physical dimensions: | Approx 180 mm (L) x 90 mm (W) x 50 mm (H) |
| Weight: | 400 grams |
| Ingress protection rating: | IP68 |

Data recording and capacity:

Storage capacity:	Up to 8Gbyte of flash memory
Sampling rate:	User selectable, up to 4000Hz sample rate per axis from the accelerometers
Interrupt trigger:	The Tracklog can interrupt on preset acceleration/shock levels. In this way, normal data can be recorded at a relatively slow rate, while every shock over a given threshold will be recorded and time stamped.
Battery capacity:	Li-Ion rechargeable battery. Battery lifetime will be dependent on sampling rate. A 1/100 sampling to sleep ratio (1 second of data sampling and recording every 100 second) will give approx 1 year lifetime. This includes continuous interrupt triggering of shocks. External sensors will degrade battery lifetime. External power supply can be used, giving an operational time only limited by the data storage capacity.

Optional sensors:

Accelerometers:	Different type of accelerometers can be mounted. Up to +/-1000g range can be supplied.
Humidity sensor:	0 – 100% relative humidity
Magnetometer:	Can be used for compass readings (e.g. equipment mounting direction) and other magnetic measurements (like determination of current flow through a conductor)
Microphone	0-15 kHz sound recording. (Sound analysis can be used to determine the condition of machinery)
Analog front end:	Analog front end used to read external sensors like pressure sensors, thermo couplers and other sensors with analog voltage or current output.
GPS	GPS module used for position and velocity logging
Pressure sensor:	Barometric pressure measurement