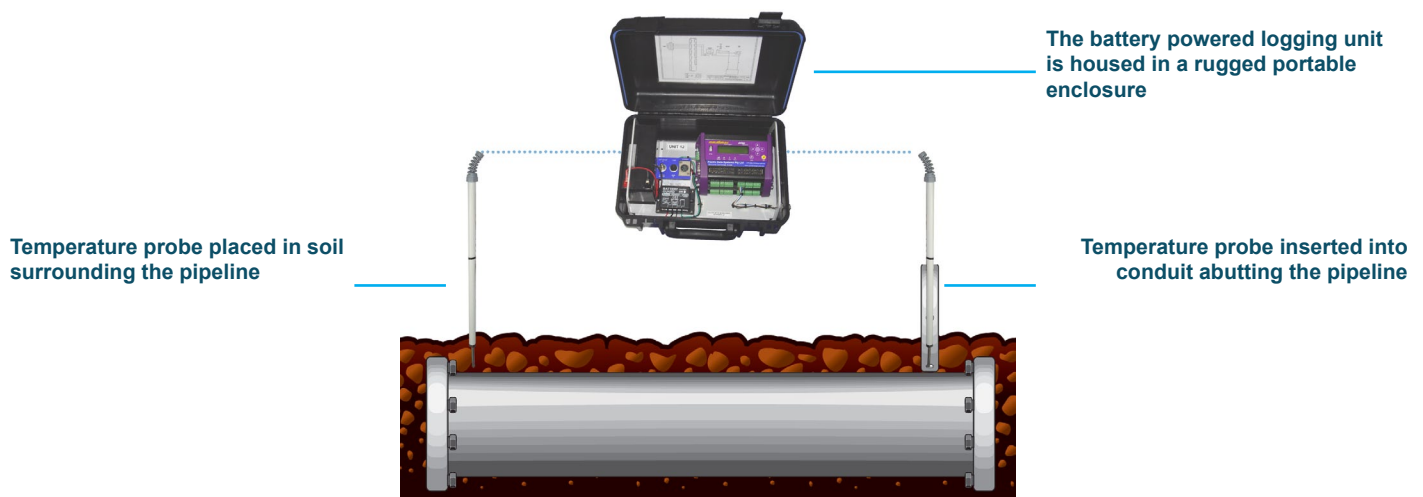# Pipeline Integrity Testing System

» **Record temperature variations to identify potential leaks**
» **Portable and rugged**
» **Easy-to-use**
» **Battery-powered**
» **Optional remote communications**

The Pacific Data Systems Pipeline Integrity Testing System has been developed for pre-commissioning leak tests on gas pipelines.The system assists in identifying fluctuations in temperature along the length of pipeline which could indicate a possible leak.

Temperature probes are placed at either end of the pipeline length. One probe is placed into the soil surrounding the pipeline and the second is inserted into conduit abutting the pipeline and both are wired to the logging unit. The battery powered logging unit will collect data during the test period (typically 24 hours) and after testing is complete, the data can be directly downloaded to PC for modelling.

The battery powered logging unit is housed in a rugged portable enclosure

Temperature probe placed in soil surrounding the pipeline

Temperature probe inserted into conduit abutting the pipeline

Technical Specifications

Conduit Temperature Probe

Sensor type:	PT100A RTD 4 wires
Stainless steel sheath:	60mm (optional length increase)
Fibreglass rod:	2m (longer lengths available)
Cable length:	3m standard (longer lengths available)

Soil Temperature Probe

Sensor type:	PT100A RTD 4 wire

Data Logging Unit

Power:	Battery
Memory:	128MB, approx 10,000,000 data points with Date Time Stamp Alarm Logs
Data collection:	USB Flash drive or Ethernet connection to PC/Laptop
Resolution:	18 bit
Display:	LCD, 2 line by 16 characters, backlight
Communications:	Optional 3G / Iridium Satellite communications

* Battery and solar power may be required if remote communications options are fitted
** Data plans will also apply