

Standalone Hydrotest Monitoring System

HYDROskid™ 3000

The HYDROskid™ 3000 is a compact, self-contained sub-sea monitoring system designed for hydrotesting campaigns during pipeline pre-commissioning. Built around Aquatec's HYDROlog® 3000 logger range, it provides a deployment-ready platform for configured pressure, temperature and flow monitoring, with integrated subsea display, optical data access, subsea switching and external power.

Available logger configurations support test pressure, ambient pressure, ambient temperature, dual pressure

and flow monitoring, depending on the selected model. Pressure measurement is available up to 1,400 bar, with $\pm 0.05\%$ FS accuracy and $\pm 0.01\%$ FS precision up to 1,000 bar, and $\pm 0.1\%$ FS accuracy and precision at 1,400 bar.

Designed for rapid mobilisation and reliable long-duration monitoring, the HYDROskid™ 3000 combines internal data logging, real-time access, external power and logger back-up batteries to help maintain data continuity throughout the hydrotest.



HYDROskid™ 3000 | Standalone Hydrotest Monitoring System



HYDROlog® 3000 | Hydrotest Loggers



AQUAswitch™ | Subsea ROV Switch



AQUAdisp™ | Subsea Display



AQUAmodem® Op2 | Optical Modem Set

CONFIGURATIONS

- HYDROlog® 3000PT for test pressure and ambient temperature
- HYDROlog® 3000PgT for test pressure, ambient pressure and ambient temperature
- HYDROlog® 3000PPT for dual test pressure and ambient temperature
- HYDROlog® 3000F for flow when combined with another configuration

INTERFACE TOOLS

- AQUAdisp™ subsea display provides live numerical and graphical feedback
- AQUAmodem® Op2 enables high-speed optical data download without interrupting ongoing logging
- AQUAswitch™ allows subsea activation or deactivation by ROV or diver

SENSOR SPECIFICATIONS

	PRESSURE	TEMPERATURE
Sensor type	Piezo-resistive bridge	Thermistor
Range	Absolute: 301, 601, 1001, 1401 bar	-2 to 35 °C standard Other ranges on request
Accuracy	±0.05% FS over temperature range* up to 1000 bar and ±0.1% FS at 1400 bar	±0.1 °C
Precision	±0.01% FS over temperature range up to 1000 bar and ±0.1% FS at 1400 bar	±0.1 °C
Resolution	0.002% FS	0.001 °C

* Including non-linearity, hysteresis, zero offset and end value deviation (corresponds to measured error per IEC 61298-2).

SKID SPECIFICATIONS

Data storage capacity	64 MB in non-volatile FLASH (standard) Up to 2 GB (upgrade)
Logging lifetime	Depends on logging parameters - up to 1 year
Data retention	>20 years
Sampling	Burst or continuous
Acquisition rate	Up to 8 Hz depending on sensors
Burst averaging	Flexible averaging of multiple samples within burst
Communication	Via optical modem during hydrotest Via USB or serial cable topside
Battery	Rechargeable NiMH battery Logger backup: 4 x AA cells, compatible with alkaline, lithium or NiMH
Software	AQUA <i>talk</i> ™ for Windows, for configuration and download
Attachment	1/4" NPT, BSP or Autoclave (MP or HP) female process connection options. Others available on request
Maximum depth	3,500 m
Material	316 stainless steel
Weight	~50 kg in air
Dimensions	Max 372 mm (H) x 513 mm (L) x 262 mm (W)
Deployment	ROV grab bar - 20 mm diameter



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