

Standalone Hydrotest Monitoring System

HYDROskid[™] 3000

The HYDROskid 3000 is a compact, standalone monitoring system designed to support hydrotesting campaigns during pipeline pre-commissioning operations.

Measurement configurations are determined by the selected Aquatec HYDROlog 3000 logger model: 3000PT (test pressure and ambient temperature), 3000PgT (test pressure, ambient pressure and ambient temperature), 3000PPT (dual test pressure and ambient temperature), and 3000F (flow, in combination with any of the other configurations). Each logger provides pressure measurement up to 1400bar, with $\pm 0.05\%$ FS accuracy and $\pm 0.01\%$ FS precision up to 1000bar, and $\pm 0.1\%$ FS accuracy and precision at 1400bar. Data is logged internally and can also be accessed in real time.

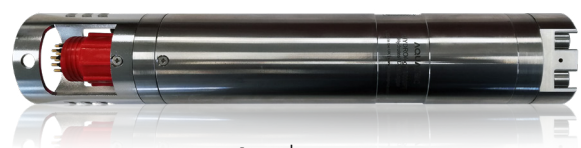
To support subsea operation and data access, the HYDROskid 3000 includes a set of integrated interface tools.

The AQUAdisp subsea display provides real-time numerical and graphical feedback; the AQUAmodem Op2 enables high-speed optical data download without interrupting ongoing logging; and the AQUAswitch allows the system to be activated or deactivated subsea by ROV or diver. To meet the power demands of its components, the HYDROskid is equipped with an external battery pack. The logger itself also contains internal AA batteries as a backup power source, ensuring data continuity throughout the deployment.

Designed for rapid mobilisation and ease of use, the HYDROskid 3000 provides a self-contained solution for accurate, reliable hydrotest monitoring. It minimises setup time while ensuring critical pressure, temperature, and flow data are captured throughout the operation.



HYDROskid[™] 3000 | Standalone Hydrotest Monitoring System



HYDROlog[®] 3000 | Hydrotest Loggers



AQUAswitch[®] | Subsea ROV Switch



AQUAdisp[®] | Subsea Display



AQUAmodem[®] Op2 | Optical Modem Set

SENSOR SPECIFICATIONS

	Pressure	Temperature
Sensor type	Piezo-resistive bridge	Thermistor
Ranges	Absolute: 301, 601, 1001, 1401bar	-2 to 35°C standard Other ranges on request
Accuracy	±0.05% FS over temperature range* up to 1000bar and ±0.1% FS at 1400bar	±0.1°C
Precision	±0.01% FS over temperature range up to 1000bar and ±0.1% FS at 1400bar	±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	64MB in non-volatile FLASH (standard) Up to 2GB (upgrade)
Logging lifetime	Depends on logging parameters - up to 1 year
Data retention	>20 years
Sampling	Burst or continuous
Acquisition rate	Up to 8Hz 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 (Back up battery in logger - 4 x AA cells - selected from alkaline, lithium or NiMH)
Software	AQUAtalk™ 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, with sacrificial anode
Weight	~50kg 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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