

# DATASHEET HYDROskid 3000

## Standalone hydrotest monitoring system

The simplest way to monitor a hydrotest...

...measuring high accuracy test pressure and ambient temperature.

The HYDROskid 3000 is a standalone hydrotest monitoring skid, making the monitoring process even simpler for pre-commissioning professionals. The system features the new HYDROlog 3000PT instrument - a compact logger measuring test pressure to 1000bar and ambient temperature. The integral pressure sensor has  $\pm 0.05\%FS$  accuracy and  $\pm 0.01\%FS$  precision. The hydrotest data is recorded on the logger, which includes a secondary power source for redundancy.

The HYDROskid also includes the updated AQUAdisp subsea display, allowing pressure readings to be monitored numerically or graphically. Data can be downloaded via ROV using the new higher speed AQUAmodem Op2 while the HYDROlog 3000 is still logging. The system is switched on by the AQUAswitch subsea switch, making sure it is only active when needed. This allows you to save battery life and data storage, whilst providing you with a secure way of activating and deactivating your equipment securely at any point during deployment. The system is compact and easy to use, with a single hydraulic connection point and a single connector for subsea download, configuration and surface charging.



### KEY FEATURES

#### Measure test pressure and ambient temperature

##### HYDROlog 3000

- Test pressure to 1000bar
- 1/4" BSP or Autoclave connection
- Ambient temperature
- Logging and real time reporting

#### Easy to connect

- Single point connection
- Instruments are set up and ready to be deployed

#### Download your data

##### AQUAmodem Op2

- Short range interrogation, control and data download
- Topside real time view

#### Activate subsea

##### AQUAswitch

- Singlehanded operation by a diver or ROV
- Positive detent in on/off position

#### View your data in real time

##### AQUAdisp

- Subsea digital display
- Low power LCD screen showing figures and graphs

#### Built in redundancy

- Primary power source is a NiMH rechargeable battery
- The HYDROlog has a backup power supply to mitigate against any loss of data

#### Complete kit

- The HYDROskid is supplied with everything you need to get started, including an ROV side optical modem, ROV cable, charging cable, activator plug, USB cable and PC with pre-loaded software.

#### Deploy with ease

- ROV grab bars with 20mm diameter
- 2 person lift (50kg)
- Compact size (284 x 512 x 372mm)



## Sensor Specification

	Pressure	Temperature
<b>Sensor type</b>	Piezo-resistive bridge	Thermistor
<b>Ranges</b>	Absolute: 301, 601, 1001bar	-2 to 35°C standard Other ranges on request
<b>Accuracy</b>	±0.05% FS over temperature range*	±0.1°C
<b>Precision</b>	±0.01% FS over temperature range	±0.1°C
<b>Resolution</b>	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 Specification

<b>Data storage capacity</b>	64MB in non-volatile FLASH (standard) Up to 2GB (upgrade)
<b>Logging lifetime</b>	Depends on logging parameters - up to 1 year
<b>Data retention</b>	>20 years
<b>Sampling</b>	Burst or continuous
<b>Acquisition rate</b>	Up to 8Hz depending on sensors
<b>Burst averaging</b>	Flexible averaging of multiple samples within burst
<b>Communication</b>	Via optical modem during hydrotest Via USB or serial cable topside
<b>Battery</b>	Rechargeable NiMH battery (Back up battery in logger - 4 x AA cells - selected from alkaline, lithium or NiMH)
<b>Software</b>	AQUA <i>talk</i> for Windows for configuration and download
<b>Attachment</b>	1/4" NPT, BSP or Autoclave (depending on test pressure)
<b>Maximum depth</b>	3500m
<b>Material</b>	316 Stainless Steel, with sacrificial anode
<b>Weight</b>	~50kg in air
<b>Dimensions</b>	Max 372 mm (H) x 513 mm (L) x 262 mm (W)
<b>Deployment</b>	ROV grab bar - 20 mm diameter

## Models

<b>HYDROskid 3000</b>	Test pressure and ambient temperature
<b>HYDROskid 3000c</b>	Test pressure and ambient pressure with hot stab attachments, valves and hosing Test pressure and ambient pressure with frame to fit customer-supplied baskets or manifolds Flow and gauge pressure also available

## Contact us

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