

DATASHEET

HYDROlog 3000PT

High accuracy hydrotest logger

The latest hydrotest logger from Aquatec...

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

The HYDROlog 3000PT instrument forms the core of the new HYDRO 3000 range of hydrotest monitoring instrumentation. It is a compact logger measuring test pressure to 1000bar and ambient temperature to depths of up to 4000m. The integral pressure sensor has $\pm 0.05\%$ FS accuracy and $\pm 0.01\%$ FS precision. New features include enhanced memory and faster download. With increasingly stringent lithium battery shipping regulations, the HYDROlog 3000 overcomes potential transit issues by using standard field-replaceable batteries available across the world. Users can choose the type of battery most suitable for each deployment, whether alkaline, lithium or rechargeable.

The HYDROlog 3000 is available in two additional models - one measuring gauge pressure, and one measuring two test pressures in a compact and efficiently designed instrument. The family of data loggers all feature the intuitive AQUAtalk software and self-contained compact design, and are compatible with the new higher speed AQUAmodem Op2 optical modem.



KEY FEATURES

High accuracy and precision pressure

- $\pm 0.05\%$ FS accuracy, $\pm 0.01\%$ FS precision
- A variety of sensor options available – 300bar, 600bar, 1000bar

Flexible deployment

- All instruments log data internally and have real time reporting capability as standard
- Choose your sampling regime with continuous and burst sampling options
- Rated to 4000m, covering typical subsea operations

Durable and robust

- Manufactured from 316 Stainless Steel, the logger is designed for the rigours of operational use.
- All loggers are fitted with sacrificial anodes to reduce the risk of corrosion on long deployments.
- Connectors and anodes are shielded from knocks and are housed within the 60mm diameter instrument.

Designed with operational efficiency in mind

- Deployment wizard to allow quick and easy logger set up
- Test data outputs as an industry standard csv file and report
- Easily transportable with alkaline and NiMH battery options
- Faster download via the new AQUAmodem Op2 optical modem, serial cable or USB on the surface

Hassle-free maintenance

- User-changeable standard AA size batteries available across the world – purchase locally or order direct from Aquatec
- Service and support plans available at time of purchase or at any time during ownership

Easily integrated into your subsea equipment

- Compact logger measuring only 60mm in diameter and 310mm in length
- Self-contained logger that runs on internal power – external power input or external battery pack supported
- No protrusions for easy mounting
- Compatible with the AQUAdisp subsea display, AQUAmodem Op2 optical modem and AQUAswitch ROV/diver switch
- Available in the compact and complete hydrotest monitoring skid – HYDROskid 3000

Sensor Specification

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

Logger Specification

Parameters	Test pressure, ambient temperature, battery voltage
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	RS232 or RS422 and USB
External interfaces	AQUA <i>disp</i> subsea display, AQUA <i>modem</i> Op2 optical modem
Battery	4 x AA cells - selected from alkaline, lithium or NiMH
Software	AQUA <i>talk</i> for Windows for configuration and download
Attachment	1/4" NPT, BSP or Autoclave (depending on test pressure)
Maximum depth	4000m
Material	316 Stainless Steel, with sacrificial anode
Weight	<5kg in air
Dimensions	Diameter - 60mm, Length - 310mm

Models

HYDROlog 3000PT	Test pressure and ambient temperature
HYDROlog 3000PgT	Test pressure, ambient pressure and ambient temperature (external probe)
HYDROlog 3000PPT	2 test pressures and ambient temperature
HYDROlog 3100PT	Surface housing - test pressure and ambient temperature

Contact us

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