

Test Pressure and Ambient Temperature Logger

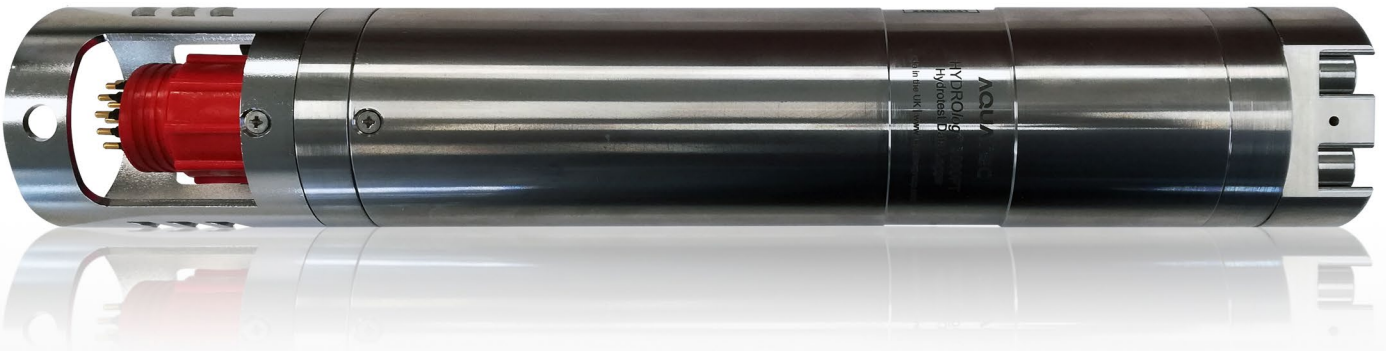
HYDROlog® 3000PT

The HYDROlog® 3000PT is a compact, self-contained subsea logger with integrated sensors for absolute test pressure and ambient temperature monitoring. Designed for hydrotest, flooding and subsea pressure monitoring applications, it combines measurement, internal logging, battery power and real-time data access in a standalone instrument.

Rated for deployment to 4,000 m, the HYDROlog® 3000PT measures test pressure up to 1,400 bar (20 kpsi) and ambient temperature with ± 0.1 °C accuracy.

Data is stored internally and can also be accessed in real time through compatible optical modem or subsea display interfaces, with download supported while logging continues.

Flexible burst or continuous sampling allows the logging regime to be configured for the monitoring requirement. Field-replaceable AA batteries, external battery pack compatibility and 316 stainless steel or titanium construction support reliable use in demanding offshore and subsea deployments.



KEY FEATURES

- Absolute test pressure measurement up to 1,400 bar (20 kpsi)
- Pressure accuracy: $\pm 0.05\%$ FS up to 1,000 bar, $\pm 0.1\%$ FS at 1,400 bar
- Pressure precision: $\pm 0.01\%$ FS up to 1,000 bar, $\pm 0.1\%$ FS at 1,400 bar
- Pressure sensor range options: 300 bar, 600 bar, 1,000 bar and 1,400 bar
- Integral ambient temperature sensor
- 4,000 m depth rating
- Integral battery and memory
- Real-time access via compatible optical modem or subsea display interfaces
- Data download supported while logging continues
- 1/4" NPT, BSP or Autoclave female process connection options, with MP or HP variants and other fittings available on request

APPLICATIONS

- Hydrotest monitoring
- Pipeline flooding monitoring
- Subsea pressure monitoring

RANGE CONFIGURATIONS

- 3000PT: Test pressure and ambient temperature
- 3000PgT: Test pressure, ambient pressure and ambient temperature for gauge pressure measurement
- 3000PPT: Dual test pressure and ambient temperature
- 3000F: Flow, test pressure and ambient temperature

SENSOR SPECIFICATIONS

	PRESSURE	TEMPERATURE
Sensor type	Piezo-resistive bridge	Thermistor
Range	Absolute: 301 bar, 601 bar, 1,001 bar and 1,401 bar	-2 °C to 35 °C standard Other ranges on request
Accuracy	±0.05% FS over temperature range* up to 1,000 bar and ±0.1% FS at 1,400 bar	±0.1 °C
Precision	±0.01% FS over temperature range up to 1,000 bar and ±0.1% FS at 1,400 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).

LOGGER SPECIFICATIONS

Parameters	Test pressure, ambient temperature and battery voltage
Data storage capacity	64 MB standard in non-volatile flash memory, upgradeable to 2 GB
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	USB and either RS232 or RS422
External interfaces	AQUAdisp™ subsea display, AQUAmodem® Op2 optical modem, AQUAswitch™ ROV switch and external battery
Battery and power options	4 x AA cells compatible with alkaline, lithium or NiMH External battery pack or external power supply options available
Maximum depth	4,000 m
Material	316 stainless steel with sacrificial anode, or titanium grade 5
Weight	4 kg in air, 316 stainless steel model
Dimensions	60 mm diameter x 310 mm length

FULL INTEGRATION WITH OTHER AQUATEC INSTRUMENTS



HYDROskid™ 3000 | Standalone Hydrotest Monitoring System



AQUAswitch™ | Subsea ROV Switch



AQUAdisp™ | Subsea Display



AQUAmodem® Op2 | Optical Modem Set