

Dual Pressure and Ambient Temperature Logger

HYDROlog[®] 3000PPT

Rated for subsea deployment to 4,000 m, the HYDROlog[®] 3000PPT is a compact data logger that measures test pressures up to 1400bar (20 kpsi), and ambient temperature with ± 0.1 °C accuracy. Data is stored internally and available in real time, with flexible user-configurable continuous or burst sampling. The logger runs on field-replaceable AA batteries (alkaline, lithium or NiMH), an external battery pack or other external power supplies. The logger is built for reliability in demanding offshore environments, featuring recessed connectors and 316 stainless steel or titanium construction.



KEY FEATURES

- High accuracy and precision pressure: $\pm 0.05\%$ FS accuracy, $\pm 0.01\%$ FS precision up to 1000bar and $\pm 0.1\%$ FS accuracy at 1400bar
- A variety of sensor options available: 300bar, 600bar, 1000bar, 1400bar
- Integral ambient temperature sensor
- 1/4" NPT, BSP or Autoclave (MP or HP) female process connection options. Others available on request
- Depth rated to 4,000 m
- Integral battery and memory
- Data logging with real-time access via optical modem or subsea display; supports download while logging

APPLICATIONS

- Hydrotest monitoring
- Subsea pressure monitoring

OTHER MODELS

- HYDROlog[®] 3000PT: Test pressure and ambient temperature
- HYDROlog[®] 3000PgT: Gauge pressure and ambient temperature
- HYDROlog[®] 3100PT: Surface housing - test pressure and ambient temperature

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).

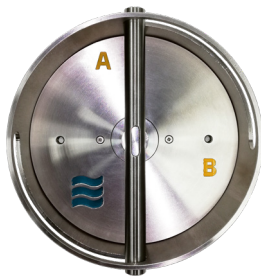
LOGGER SPECIFICATIONS

Parameters	Dual test pressure, ambient temperature.
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	USB and either RS232 or RS422
External interfaces	AQUAdisp [®] subsea display + AQUAmodem [®] Op2 optical modem + AQUAswitch [®] ROV switch + Ext. battery
Battery + power options	4 x AA cells (selected from alkaline, lithium or NiMH), external batery pack, or external power supply
Software	AQUAtalk [™] for Windows for configuration and download
Maximum depth	4,000 m
Material	316 Stainless Steel, with sacrificial anode, or Titanium Grade 5
Weight	(Stainless Steel, PT model) 4kg in air
Dimensions	Diameter - 60mm, Length - 310mm

OTHER MODELS

HYDROlog [®] 3000PT	Test pressure and ambient temperature
HYDROlog [®] 3000PgT	Test pressure, ambient pressure and ambient temperature
HYDROlog [®] 3000PPT	Dual test pressure and ambient temperature
HYDROlog [®] 3100PT	Surface housing - test pressure and ambient temperature

FULL INTEGRATION WITH OTHER AQUATEC INSTRUMENTS



AQUAswitch[®] | Subsea ROV Switch



AQUAdisp[®] | Subsea Display



AQUAmodem[®] Op2 | Optical Modem Set



HYDROskid[®] 3000 | Standalone Hydrotest Monitoring System

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