

DATASHEET

HYDROlog™ 3100

Hydrotest logger - deck version.



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
- Integral ambient temperature sensor
- Core functionality of the HYDROlog 3000 in a compact and durable case
- Optional integrated tablet for a complete system
- Internal batteries available
- All connectors protected in the case interior

APPLICATIONS

- Surface testing
- Training

MODELS

- HYDROlog 3100PT - test pressure and temperature in a surface case
- HYDROlog 3100F - flow, test pressure and temperature in a surface case
- Custom models available



Sensor Specification

Flow sensor type	5V TTL or Sine wave types
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	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	USB and either RS232 or RS422
External interfaces	AQUA <i>disp</i> subsea display, AQUA <i>modem</i> Op2 optical modem
Battery	Selected from alkaline, lithium or NiMH batteries, or mains power
Software	AQUA <i>talk</i> for Windows for configuration and download
Attachment	1/4" NPT, BSP or Autoclave (depending on test pressure)
Case material	Injection moulded resin
Weight	<8kg in air

Models

HYDROlog 3100PT	Test pressure and ambient temperature
HYDROlog 3100PPT	2 test pressures and ambient temperature
HYDROlog 3100F	External flow sensor, test pressure and ambient temperature
HYDROlog 3100Fc	Multiple external flow sensors, test pressure and ambient temperature

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