

## DATASHEET

# HYDROlog™ 3000F

## Flow monitoring hydrotest logger



### KEY FEATURES

- Standard instrument monitors 1 external flow sensor - TTL or sine wave
- High accuracy and precision pressure -  $\pm 0.05\%$ FS accuracy,  $\pm 0.01\%$ FS precision
- Integral ambient temperature sensor
- Multiple flow sensors and pressures can be monitored with custom loggers
- Depth rated to 4000 m
- Integral battery and memory
- Log for later download or access/view data subsea with optical modems or subsea display

### APPLICATIONS

- Hydrotest monitoring
- Subsea flow and pressure monitoring

### MODELS

- HYDROlog 3000F - flow, test pressure and ambient temperature
- HYDROlog 3000Fc - multiple flow sensors, test pressure and ambient temperature (custom)
- HYDROlog 3100F - flow, test pressure and ambient temperature in a surface case



## Sensor Specification

<b>Flow sensor type</b>	5V TTL or Sine wave types	
	<b>Pressure</b>	<b>Temperature</b>
<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).

## Logger Specification

<b>Parameters</b>	Pressure, temperature, battery voltage, flow rate, flowed total volume, concentration (on custom version)
<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>	USB and either RS232 or RS422
<b>External interfaces</b>	AQUA <i>disp</i> subsea display, AQUA <i>modem</i> Op2 optical modem
<b>Battery</b>	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>	4000m
<b>Material</b>	316 Stainless Steel, with sacrificial anode
<b>Weight</b>	<5kg in air
<b>Dimensions</b>	Diameter - 60mm, Length - 335mm

## Models

<b>HYDROlog 3000F</b>	External flow sensor, test pressure and ambient temperature
<b>HYDROlog 3000Fc</b>	Multiple flow channels, test pressure, ambient pressure and ambient temperature
<b>HYDROlog 3100F</b>	Surface housing - external flow sensor, test pressure and ambient temperature

## Contact us

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