

HYDROlog™ 3000F

Flow monitoring hydrotest logger



The HYDROlog 3000F is a new flow monitoring logger and is part of the HYDRO 3000 generation of hydrotest monitoring equipment. It is a compact logger that monitors one external flow sensor, as well as measuring test pressure to 1400bar and ambient temperature, to depths of up to 4000m.

Specifications

Product	HYDROlog™ 3000F
Country of origin	UK
Manufacturer	Aquatec Group Ltd.

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
- Depth rated to 4000 m
- Integral battery and memory
- Log for later download or access/view data subsea with optical modems or subsea display
- Multiple flow sensors and pressures can be monitored with custom loggers

Sensor Specifications

Flow sensor type	5V TTL or Sine wave types	
Depth rating	Pressure	Temperature
Sensor type	Piezo-resistive bridge	Thermistor
Ranges	Absolute: 301, 601, 1001bar	-2 to 35°C standard Other ranges on request
Accuracy	$\pm 0.05\%$ FS over temperature range*	$\pm 0.1^\circ\text{C}$
Precision	$\pm 0.01\%$ FS over temperature range	$\pm 0.1^\circ\text{C}$
Resolution	0.002% FS	0.001°C

Logger Specification

Parameters	Pressure, temperature, battery voltage, flow rate, flowed total volume, concentration
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
Battery	4 x AA cells - selected from alkaline, lithium or NiMH
Software	AQUAtalk 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 - 335mm