

Subsea Logging Systems

- Subsea data logging system
- Suitable for depths up to 4000 metres
- Log inputs from a wide range of sensors
- Sensors for flow, pressure, temperature etc.
- Stores 10,000,000 readings
- Export data to Excel, Word etc.
- Optional subsea display



Subsea Data Logger in 4000M Housing

Specification - DT80 Data Logger

Inputs	V, mV, mA, T/C's, PT100, frequency, resistance, strain gauges, pulse, digital state, SDI12, RS485/RS232 ASCII data
Channels	15 analogue, 12 digital
Memory Capacity	5,000,000 readings
Logging Modes	Single point, average, min, and max
Logging Rate	Programmable - 1 second to 12 hours
Data Retention	Over 200 years with no power
Operating Range	-40 to +60 degrees C
Power Supply	External 10-30v DC or internal battery
Data Format	Graphic and CSV, suitable for export to Excel
Display	Optional subsea display unit



DT80 Data Logger

Specification - OceanTools Display

Data Input	Serial ASCII text, baud rates 300 to 57600
Control Modes	Light activated, or external TTL on/off control
Power Supply	10-36v @100mA (5mA standby)
Data Format	Graphic and CSV, suitable for export to Excel
Display	LED dot matrix 50mm high x 225 long
Depth Rating	1000, 2000, 3000, or 4000 metres



OceanTools Display

Subsea Logging Systems

Specification - Subsea Pressure Sensors

Characteristics	PA33X-Subsea	Units
Pressure Ranges:	1, 3, 10, 30, 100, 300, 1000, 1360	Bar gauge
Rated Output	0-5v or 4-20mA	
Excitation Voltage	10	VDC
Input Current	<3	mA
Output Config	3 wire (0-5v) 2 wire (4-20mA)	No. of wires
Accuracy	0.1	+/- % of rated O/P
Temperature range	Compensated 0 to +40	°C
	Operating -40 to +80	°C
Stability	<0.05% over 12 months	+/- of Rated Output
Media Compatability	Any media Compatible with 316 L St St	
Protection	I.P. 68 to 4000 metres seawater	
Electrical Connector	5 pole subcon male connector MCBH5M-SS or BH5M-SS	
Process Connection	1/4" BSP male, or 1/2" NPT male, other on request	



Specification - Subsea Flow Meters

Characteristics		NT3-NT150-Subsea		
Output Config		2 wire AC frequency signal 50mV-800mV		
Accuracy		0.5% (0.3% for NT100 & NT150)		
Temperature range		-30 to +140		
Pressure drop		0.2 - 0.5 bar depending on meter size		
Media Compatability		Any clean liquid compatible with 316 L St St		
Protection		I.P. 68 to 4000 metres seawater		
Electrical Connector		3 pole subcon male connector MCBH3M-SS or BH3M-SS		
Type	Flow Range Ltrs/Min	K factor Ltr	BSP Threads	ANSI Flanges
NT3	0.5-5	17000.0	3/8"	1/2"
NT5	1.2-10	5900.0	1/2"	1/2"
NT7	2-20	3000.0	1/2"	1/2"
NT11	5-50	2600.0	1/2"	1/2"
NT13	8-80	1950.0	3/4"	1/2"
NT19	15-150	630.0	1"	1"
NT24	25-250	350.0	1"	1"
NT32	45-450	135.0	1 1/4"	1 1/2"
NT38	65-650	117.0	1 1/2"	1 1/2"
NT48	110-1100	67.0	2"	2"
NT65	200-2000	18.0	3"	2 1/2"
NT80	300-3000	14.0	-	3"
NT100	500-5000	7.5	-	4"
NT150	1000-10000	3.4	-	6"



Measurement and data acquisition solutions

Contact Details:

Tel: +44 1382 443000

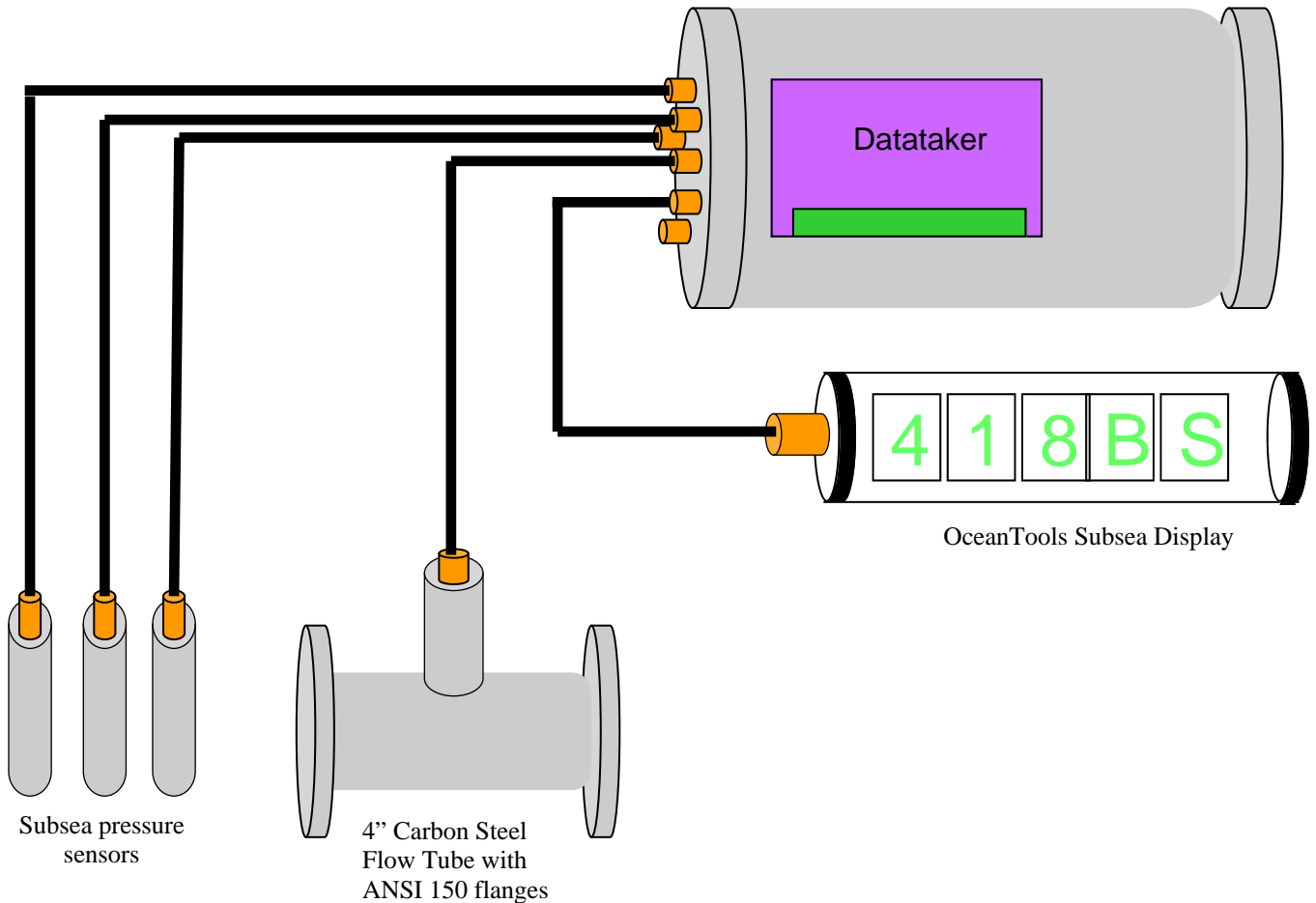
Email: info@omni.uk.com

Website: www.omniinstruments.co.uk

Mailing Address: Unit 1, 14 Nobel Road,
Wester Gourdie Industrial Estate,
Dundee, DD2 4UH.

Subsea Logging Systems

Typical System Configuration



Subsea data logging system comprising of Datataker DT80 data logger fitted in stainless steel housing.

Up to 15 external sensors for pressure or flow can be connected to the system. All data is stored in non volatile memory and can be downloaded direct to PC or USB memory stick. Real time readings can be viewed whilst subsea via the OceanTools light activated display unit. An external connector is provided for programming / data download without opening the housing. Units can also be supplied with internal battery or external power options.

All housings, sensors etc are rated to 4000 metres seawater (400 bar).