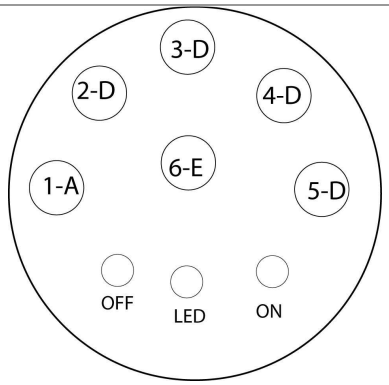
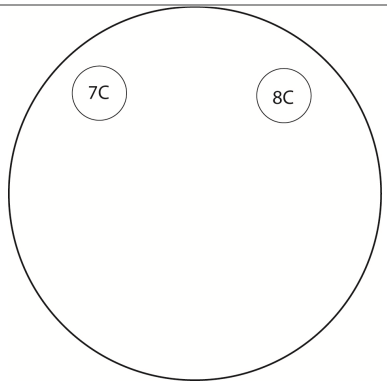
Data Logger 021 Custom Configuration Sheet

The table below shows the function of the DH-4 bulkhead connectors and their relationship to the logic ports in the host software.



Connector # and class, looking at top of meter



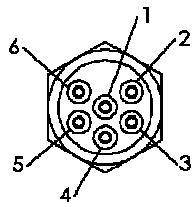
Connector # and class, looking at bottom of meter

Bulkhead Connector Definition		**WET Labs Host Software** Port Setup Tab			**Instrument**
Connector #	**Connector Class**	**Port #**	**Port Type**	**Port Setup (Baud rate)**	
Connector 1:	A		Host	115200	
Connector 2:	D	1	ASCII	OFF	Serial RS-232 Data
Connector 3:	D	2	ASCII	19200	Serial RS-232 Data
Connector 4:	D	3	AC9	9600,7,E,1	Serial RS-232 Data
Connector 5:	D	4	ASCII	9600	Serial RS-232 Data
Connector 6:	E	--	--	--	Battery
Connector 7:	C	9	OFF		Analog (0-5V) Data
		10	OFF		Analog (0-5V) Data
Connector 8:	C	11	OFF		Analog (0-5V) Data
		12	OFF		Analog (0-5V) Data

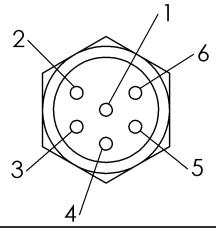
WET Labs Host Software Logger Control Tab			
Sampling Parameters		Other Logger Controls	
Delay before start	5 sec	**Low Voltage Cutoff:**	7.0 V
Pre-warm up flush	1 sec	**Analog Data Rate** (Use fastest meter's data rate):	4 Hz 250 ms
Meter warm-up	10 sec	**Mode of Operation:**	Real Time Mode
Meter flush	0 sec	**Logged Data File Format:**	No Data Storage
Sample	100 hours	**Logger Output Format:**	Real Time Data + Status

Software version: 7.09c **Firmware version:** 7.09 No CTM

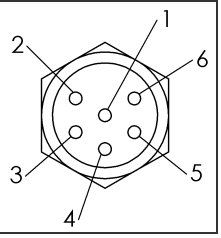
Connector Class A (Host)

Pin	Function	Diagram
1	Ground	
2	RS-232 RX	
3	RS-422 Y	
4	V+ (10–18 DC)	
5	RS-232 TX	
6	RS-422 Z	

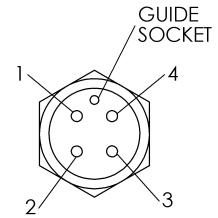
Connector Class B (Single Analog)

Socket	Function	Diagram
1	Ground	
2	Analog signal 1	
3	Analog 1 ground	
4	V+	
5	N/C	
6	N/C	

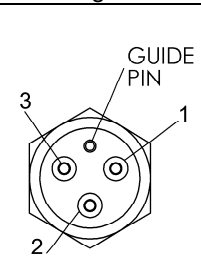
Connector Class C (Dual-channel Analog)

Socket	Function	Diagram
1	Ground	
2	Analog signal 1	
3	Analog 1 ground	
4	V+ (10–18 DC)	
5	Analog signal 2	
6	Analog 2 ground	

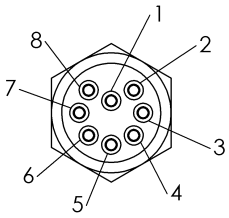
Connector Class D (Serial)

Socket	Function	Diagram
1	Ground	
2	V+ (10–18 DC)	
3	DH4 RS-232 RX	
4	DH4 RS-232 TX	

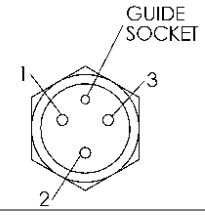
Connector E (Battery)

Pin	Function	Diagram
1	Ground	
2	V+ (10–18 DC)	
3	N/C	

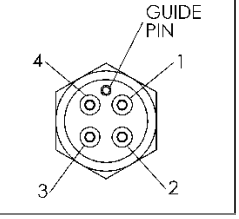
Connector F (8-pin Host)

Pin	Function	Diagram
1	Ground	
2	RS-232 RX	
3	RS-422 Y	
4	V+ (10–18 DC)	
5	RS-232 TX	
6	RS-422 Z	
7	RS-422 A	
8	RS-422 B	

Connector G (Pump)

Socket	Function	Diagram
1	Ground	
2	V+ (10–18 DC)	
3	N/C	

Connector H (Deep LED/Switch)

Pin	Function	Diagram
1	LED (-)	
2	Switch (+)	
3	LED (+)	
4	Switch (+)	

Port Types

Refer to section 7 of the data logger's User's Guide to identify which bulkhead connector is associated with each logic port for your specific data logger. Except where noted, all ports are powered during the warm up, flush, and sample segments of a run. Serial port type options are:

Host Port—Selectable baud rate for the host port.

OFF—The port will not be powered, nor will any data be accepted from this port during data sampling.

AC9—Only data following the ac-9 record format will be accepted by this serial port.

ACS—Only data following the ac-S record format will be accepted by this serial port.

ASCII—ASCII data that is terminated with <Carriage Return ><Line Feed> (CR LF) will be accepted by this serial port.

Binary—All data will be accepted by this serial port. The serial port type has no restrictions on the format of the data that it receives, making it a good initial selection when setting up new meters.

DH-Mux—Only data in a DH-Mux format will be accepted by this serial port. See Appendix B for a complete description of the DH-Mux format.

ECO-G2—This type will accept the date, time, and tab-delimited numeric data in the second-generation ECO meters such as the BB, BB2F, and BB3. Additionally, at the end of the sample segment the ECO-G2 "close shutter" command will be sent to the meter.

GPS—Accepts NMEA-0183 standard data formats GP, GGA, GPRMC, GPLLA.

Pump—This port will provide power for pump operation during the flush and sample segments of the data collection. No data will be processed from this port.

Remote Host—This port provides power for relaying data during the sampling segment only. It is activated in the Logger Control tab from the Commands/Show Advanced Settings/Remote Host Control.

SBE 16-SS—The data logger will query the SBE-16 every 4 seconds, at which point the SBE's data will be retrieved.

VSF-S—This type will accept ASCII data from the first generation of ECO meters such as the VSF and DFL. Additionally, at the end of the sample segment the ECO-G1 "close shutter" command will be sent to the meter.

WL-Test—Used by WET Labs personnel and not available to the user.