Wave logger additional notes

Wave logger has a Honeywell MLH **pressure sensor**. (see product sheet), zie ook
http://sensing.honeywell.com/index.php?ci_id=3108&la_id=1&pr_id=31550

MLH 050 PGP 06 A
50 psi psi gage
Flying leads (20 AWG – 6 in)
1/6 in 27 NPT
0.5 Vdc to 4.5 Vdc ratiometric from 5 Vdc exication

Te koop bij mouser:
http://nl.mouser.com/Search/ProductDetail.aspx?qs=pLJKYPamQJz9Ny66tbLCUQ%3D%3D
prijs €91.81 per stuk

Batteries

The wave logger needs one D Cell 3.6v Lithium Ion 16500Ah.
Goed voldoen: Lithium-Thionyl ER34615 3,6V D SO Soldertag 10766 (10 Ah) € 14.52
Soldertag is overbodig, moet verwijderd worden foor goed functioneren.
Aangeschaft via Batterypoint.nl (2012)

New info for wave logger (per 1/1/2013):

1. Removed on board voltage regulator and added 5v step up converter for Li batteries, this dramatically improves standby current draw, but the unit can not only be used with 3.6v batteries. The unit should operate for at least 30 - 40 days on all configs on one D Cell 3.6v.
2. Added push button, when the unit is logging and you wish to close the file, push the button and the data is safe, both LEDs go solid.
3. New double sided silk screened PCB s
4. Changed Header format to $S, BurstIndex,2012-11-01T00:00:00Z,Temp
5. Added Burst Duration Options (1min, 5min, 10min, 20min, 30min)
6. Added Sample Intervals (15min, 30min, 60min, 180min)
   e.g. if 15min chosen, log times will be 0:00, 0:15, 0:30, 0:45
   e.g. if 180min chosen, log times will be 0:00, 03:00, 06:00, 09:00 etc.

USB Cable:

The supplied USB cable has a built in FTDI chip, a driver may need to be installed and can be found here: http://www.ftdichip.com/FTDrivers.htm. After installation of the driver
The cable is energized with 5V from the computer USB port, it is therefore necessary to connect the cable to the logger in the correct orientation or damage will result.
You should use the connector near the green led. It is labelled GND FTDI Tx Rx. The black wire on the USB cable must be on the "GND" side.

After installation go to the device manager of Windows. Under “Ports” you should find a USB serial port with a COM number. Remember the COM number (usually it is COM6). For port settings see below.

Configuring the Unit:
The device may be configured via the supplied USB cable. Any terminal program may be used to communicate with the device (Hyper Terminal is recommended). The date and time of the unit can be checked and changed and the sampling duration may be changed.

Method (NOTE: the sequence of the actions below is of utmost importance!!)
> Remove power to the unit.
> Plug in the USB cable to the computer.
> Start Hyper Terminal or some other terminal program.
> Select to COM port that corresponds with the FDTI USB cable.

Com port settings:

Baud Rate: 9600.
Data Bits: 8
Parity: None
Stop Bits: 1
Flow Control: None

> Open the port.
> Connect the USB FTDI cable to the device (take note of orientation, black= GND).
> Connect power to the unit.
> Two leds blink alternatively
> In the terminal window, text should appear, prompting the user to enter the "M" (capital M) key to enter the setup.
> Follow the instructions on screen to complete the setup.

Hyperterminal is standard included in Windows XP and earlier. In Windows7 it is no longer included. However, you may copy the Hyperterminal files from an XP computer and run them (without installation) in Windows7.

Leds	Green+Red fast blinking	Starting
Green slow blinking	waiting for data	
Green+Red NO blinking	measuring	
Green+red blinking	waiting for data input via hyperterminal	
Green+red permanent	measuring stopped; data are written to SD card	

Unify language
Description for the calibration