the Cave Pearl
A DIY data logger
Wiring Diagram & Links

V. in (3.4-6.0 v)
Gnd

1. 3.3v ProMini or equivalent
2. DS3231 RTC & AT24c32 eeprom
3. Raspberry Pi µSD card adapter
4. Pololu Power Switch LV (Adds 0.3 mA to sleep current)

Optional

10 MΩ divider w 0.1µF on A0

10 KΩ Limit

SCLock
MISO
MOSI
CSelect

Sensor Interrupt

12C bus
(w 4.7k pullup)

50 KΩ pullup on lines 8 & 9

Remove these * resistors & replace 3.6v LIR2032 w 3v CR2032

The Arduino programming environment:
http://arduino.cc/en/Main/Software

Instructions and links to components suppliers:
http://edwardmallon.wordpress.com/read-the-blog/

Open source software to run the data logger:
https://github.com/EKMallon/The_Cave_Pearl_Project_CODEbuilds