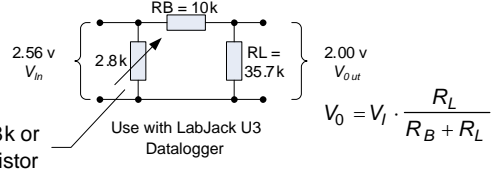


Bill of Material

- | | |
|----------------|--|
| C1, C2 | 15 pF ceramic disc capacitor |
| C3, C6, C10 | 0.1 uF monolithic capacitor |
| C4 | 2.2 uF tantalum capacitor |
| C5 | 100 uF electrolytic capacitor |
| C7, C8 | Not used |
| C9 | 47 uF tantalum capacitor |
| C11 | 10 uF tantalum capacitor (mounted on sensor) |
| C12 | 1 uF, tantalum capacitor |
| C13, C14 | 47 uF, tantalum capacitor |
| R1, R3, R4, R5 | 4.7k, 1/4 w resistor |
| R2 | 100, 1/4 w resistor |
| R6 | 200, 1/4 w resistor |
| R7 | 5k potentiometer |
| D1, D2 | 1N4148 diode |
| D3 | 1N4006 diode |
| D4 | Green LED |
| Y1 | 10 MHz crystal |
| VR1 | 7805 voltage regulator |
| VR2 | 7809 voltage regulator |
| VR3 | 7805 voltage regulator |
| I1 | 0 - 1 ma analog panel meter |
| S1 | SP4T rotary switch |
| S2 | SPST momentary push-button switch |
| S3 | SPST On/Off switch |
| IC1 | SCL-006B ASIC |
| IC2 | AD557 DAC |
| Sock1 | 18 pin DIP socket |
| Sock2 | 16 pin DIP socket |
| J1 | 3.5 mm phone jack, mono |
| J2 | 3-pin mini-DIN receptacle, panel mount |
| SENS1, SENS2 | Speake FGM-3 magnetometer |
| Case | Hammond 1591XXCTBU (4.7 in. x 2.6 in. x 1.4 in.) |
| DC | DC coaxial power connector, 2.1 mm x 5.5 mm |
| TS | Terminal strips |

Capacitor Types:
 CD: Ceramic disc
 E: Electrolytic
 M: Monolithic
 T: Tantalum



PAGE	DRAWN BY	REVISED	FILENAME	DESCRIPTION
1 OF 3	WHITHAM D. REEVE	1/7/2009	MAGNETOMETER M1.VSD	Magnetometer Model M1