Applications:
Very low current sensing with high dielectric isolation - Milliamps to 2 Amps (determined by wire gauge)

Operation:
Output voltage can be measured between A-OUT1 and CO-OUT1 for a differential output or between A-OUT1 and GND for single ended output. Current measured flows through the wire that is wrapped around the bobbin. Sensitivity depends on the number of turns, the approximate level is 31mV/A*t (example: 12 turns of #22 gauge wire will provide an output voltage sensitivity of 370 mV/amp or 740 mV for 2 amps of current flow). The number of turns depends on the desired sensitivity and size of wire used. An optional mu-metal shield wrapped around the coil will increase the sensitivity (10-15%) and will provide significant shielding against stray fields.

Top View
- GND
- +5V
- A-OUT
- CO_OUT

Bottom View
- 0.5"
- 0.75"

Basic PCB
(Included in kit)
Basic PCB with bobbin
(Included in kit)
Basic PCB with bobbin and multi-turn copper wire
Basic PCB with bobbin, multi-turn wire and shield

Single Ended Output
Full scale output
2.5 V +/- 2.5Volts

Differential Output
Full scale output
0 V +/- 2.5Volts