

# I-GAUSS

## Rotor Strength Checker

The I-Gauss™ rotor strength checker is a precision magnetic field meter that is especially designed for measuring the strength of a brushless motors rotary magnet. The I-Gauss may also be used to check the strength of the magnets in slot car D3/IRRA style motors.

The checker comes with a 3.5 digit LCD that is able to display either real time or maximum value strength mode, (-1999 to 1999), when rotating the magnet. The higher the numerical value, the stronger the magnet. The positive and negative value indicates the side of magnet rotating toward the checker, north and south polarity respectively.

### Operation:

Turn on the checker using the power switch.

**To get the most accurate readings rotor to rotor and to have repeatable test results the I-Gauss will need to be calibrated each time it is used.**



By pressing the ZERO button with no magnet nearby or sitting on the cradles the calibration is completed when **"000" shows up on the meter**. The checker is then ready to be used.



In the default setting, the checker is in the **real time strength mode**, indicated by a **"C"** after you turn on the unit. Put the rotor in the cradles and slowly rotate the rotor forward and backward through 180 degrees. The LCD will display the varying magnetic strength from the highest to lowest point as the field changes from positive to negative. Be sure to go past the highest point of magnetic field on both the positive and negative sides to get the most accurate reading.

Press the HOLD button and the unit will go into peak holding

mode. The LCD will display an **"H"**, indicating the peak/peak mode. The numbers will flash the highest positive and highest negative readings automatically. You need not try to read the numbers and remember them when rotation the rotor, the I-Gauss will do it for you.

Pressing the hold button will toggle back to the previous state, either real time or peak/holding mode. That is, if the previous state is in the real time mode, then the unit would toggle to peak/holding mode.



To test D3/IRRA slot car motors place motor between the cradles up against unit. Rotate motor 180 degrees and than press hold button.

### Caution:

- 1, Do not operate the I-Gauss near a strong magnetic field.
- 2, Keep the unit away from water or moisture.
- 2, Do not put the motors rotor near items like floppy discs, CRT monitors and medical instruments. The magnet could interfere with the normal operation of instruments, and even cause permanent damage to them.
- 3, Do not use the unit in hospital or on a plane as the magnet could possibly interfere with instruments.
- 4 Take battery out of the checker when not in use for a long time, otherwise, the battery may leak and damage the checker.
- 5, Keep out of reach of children. Handling the magnets with care. Otherwise, attraction of two magnets may hurt your fingers.

### Specification:

DC input: 9V Battery  
Microprocessor inside  
LCD with 3.5 digits (-1999 to 1999)

(We reserve the right to modify the I-Gauss due to continuous product development)

### THIS PRODUCT CONTAINS LEAD

WARNING: This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm.

Team EPIC Inc. assumes no liability for the use or misuse of this product and any damage thus caused to person or surroundings.

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