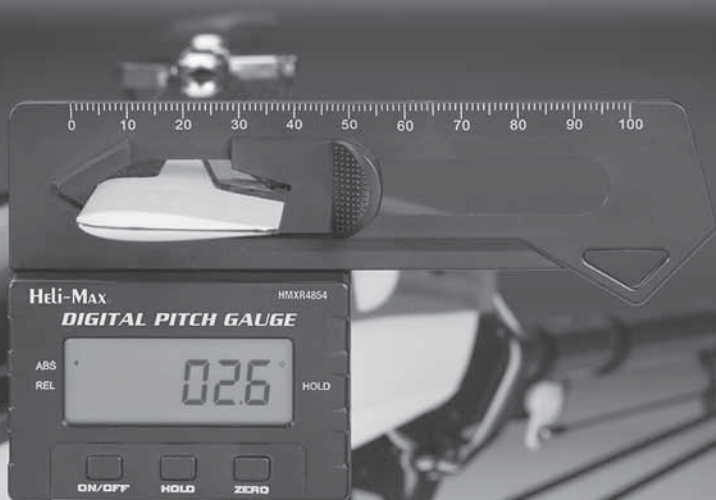


# Heli-Max®



## INSTRUCTION MANUAL



Thank you for purchasing the Heli-Max Digital Pitch Gauge. This product is intended to measure the angle on the helicopter's main and tail rotor blades during setup. The gauge can also be used without the mounting plate for other tasks that would require a level.



- |                        |                               |
|------------------------|-------------------------------|
| 1. Ruler               | 7. ON/OFF                     |
| 2. Blade Clamp         | 8. HOLD Button                |
| 3. Mounting Plate      | 9. ZERO Button                |
| 4. Digital Pitch Gauge | 10. LCD Display               |
| 5. ABS Indicator       | 11. Hold Indicator            |
| 6. REL Indicator       | 12. Battery Compartment Cover |

**OFF/ON Button:** Press the button to turn the gauge on or off. The gauge will turn itself off after 5 minutes of inactivity.

**ABS Indicator:** The gauge will be in ABS (Absolute Measurement Mode) when it is turned on. This mode uses 0 degrees as the reference point for all measurements. When the gauge is in this mode, you will see a small pointer on the left side of the display by the ABS sign.

**REL Indicator:** When the ZERO button is pressed, the gauge will set the reference point to the angle that the gauge is in at that time. The small pointer on the left side of the display will be down by the REL sign. This indicates that the gauge is now in the Relative Measurement Mode. Pressing the ZERO button again will put the gauge back in the ABS mode.

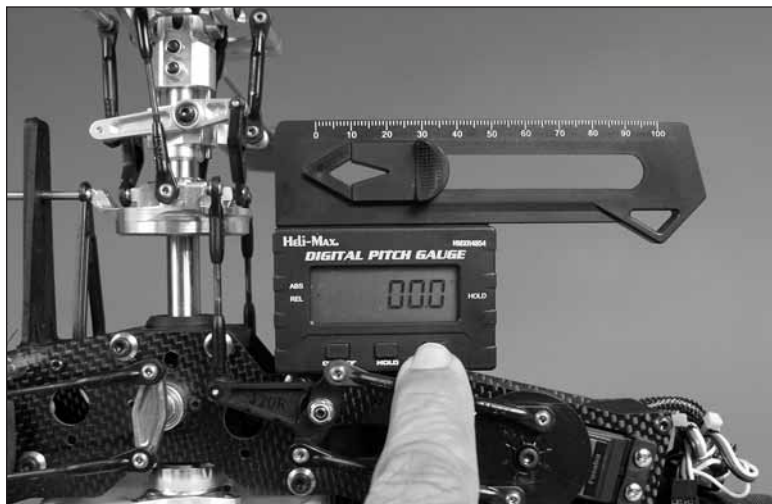
**HOLD Button:** When the HOLD button is pressed, the gauge will turn off the sensor and hold the reading that is on the display. A pointer will be visible on the right side of the display by the HOLD sign when this feature is active. Pressing the ZERO button again will restore the gauge to normal operation.



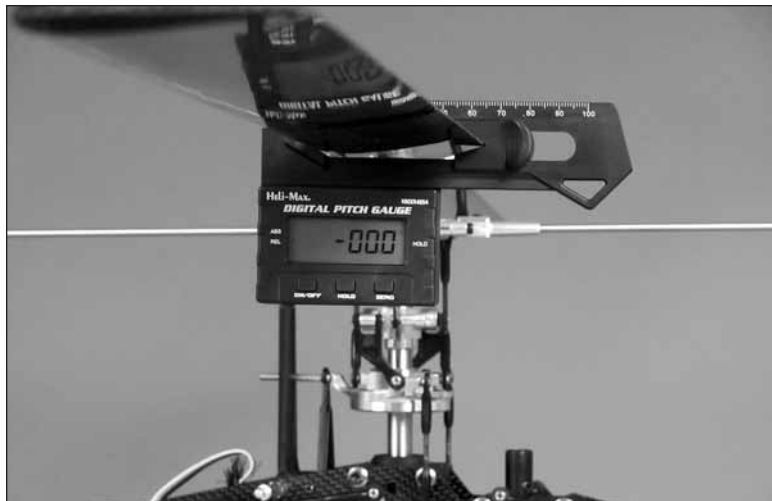
- Remove the battery compartment cover.
- Peel off tape on the battery.
- Replace the battery compartment cover.

The pitch gauge is now ready for use.





For the most accurate pitch reading, the Heli-Max Digital Pitch Gauge should be reset so it is perpendicular to your helicopter's mainshaft. The end of the motor on an electric model, or a flat top/bottom section of the side frames should be good surfaces to use. Place the gauge on the area selected and press the ZERO button to put the gauge in REL mode. When you measure the pitch of the rotor blades, position the blades so the gauge is facing the same direction it was when the ZERO button was pressed.



- Turn on Pitch Gauge.
- Extend both rotor blades so they are 180° apart.
- Slide the gauge onto one of the rotor blades. Position the gauge as close as possible to the blade grip. For maximum accuracy when checking the pitch of the other blade, position the gauge the same distance from the blade grip.



- Remove battery compartment cover.
- Remove discharged batteries.
- Install (2) replacement CR2032 batteries. Please note that the positive side of each battery should be on top.
- Replace the battery compartment cover.

The gauge does not need re-calibration after the batteries have been replaced.



If the gauge is not going to be used for a long time period, please remove the batteries to prevent damage to the contacts.



Operating Voltage: 3.9~6VDC

Sleep Current: < 7uA

Low Voltage Protection: 4V±0.05

Detectable Pitch Range: -90° ~ 0 ~ +90° (Screen flashes warning)

Blade Chord Range: 15mm to 65mm

Current Consumption: < 4mA

Resolution: 0.1°



If you need technical support or have a question, you can reach us by one of the following means:

**Email:** helihotline@hobbico.com. Please try to include as much information as possible when asking your question. Also please be sure to list your full email address (ex: johndoe@aol.com) as well as at least one other means of daytime contact in your email.

**Telephone:** 1-217-398-8970, ext. 5. Available Monday-Friday, 8am-5pm U.S. Central Time.

**FAX:** 1-217-398-7721. Please be sure to include a daytime telephone number or return fax number so that we can contact you.

**Regular mail:** If you prefer, we can always respond with a regular mailed letter. Simply write to us, including a brief explanation of your problem or question along with the product name you are referring to. Use the Hobby Services address shown on the next page.



Heli-Max guarantees this accessory to be free from defects in both material and workmanship at the date of purchase. In no case shall Heli-Max's liability exceed the original cost of the purchased item. Further, Heli-Max reserves the right to change or modify this warranty without notice. If the buyer is not prepared to accept the liability associated with the use of this product, the buyer is advised to return this item immediately in new and unused condition to the place of purchase.

To make a warranty claim, send the defective item to Hobby Services at this address.

Hobby Services  
3002 N. Apollo Dr., Suite 1  
Champaign, IL 61822

Please include a letter stating your name, return shipping address, as much contact information as possible (daytime telephone number, fax number, e-mail address), a detailed description of the problem and a photocopy of the purchase receipt.

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