

# CERTIFICATION

## ANNIS MODEL 25 MAGNETIC FIELD INDICATORS

Serial Number \_\_\_\_\_ Gauss Range \_\_\_\_\_ Temperature \_\_\_\_\_ F

It is hereby certified that the above serial numbered Magnetic Field Indicator has been individually tested and calibrated to meet manufacturer's new instruments specification. Such testing being performed in conformance with ANSI Z540.3 using a precision Helmholtz type uniform magnetic field source in which the magnetic field level is directly calculable, to a high degree of accuracy, from the handbook formula:

$$H=0.8992 \frac{NI}{R}$$

R cm.

These tests are conducted using Helmholtz Coil type Magnetic Field Standard No. 65-M-10 in conjunction with multiple laboratory type DC ammeters two of which are cross-checked on a daily basis and all of which have calibration traceable to N.I.S.T. The Helmholtz Coil is cross-checked against other certified Helmholtz magnetic field standards similar to those we manufacture and supply for use in other calibration laboratories such as: U.S. Navy, U.S. Air Force, United Testing Labs, General Electric, Pratt and Whitney, McDonnell Douglas, Etc.

These Model 25 Pocket Magnetometers are calibrated more accurately to international standards than any other moving-magnet type gauss meter that is commercially available. Instruments having ranges of 2 to 100 gauss are calibrated to be accurate within 2% of full scale. Instruments having ranges outside of these values are calibrated to be within 5% of full scale.

All moving magnet type gauss meters measure magnetic field intensity at the movement staff location which, (on Model 25) is spaced 5/8" away from the test edge of the meter case.

Earth's field bias must be eliminated when doing accurate calibration. This is accomplished by making sure that when the instrument pointer is aimed magnetic west, it is exactly on center zero, and when calibrating, that the instrument staff is oriented parallel with the dip angle of the local magnetic field.

STANDARD	*AS RECEIVED	FINAL CALIBRATION

This Model 25 Magnetometer was manufactured by, and is calibrated by R.B. Annis Co.,Inc. It is hereby certified to be within the tolerance of a new instrument.

Test Date: \_\_\_\_\_

Calibration Tech \_\_\_\_\_

R.B. Annis Instruments, Inc.  
117 W. Franklin St.  
Greencastle, IN 461135  
Phone: 765-848-1621

\*This column is only used for Magnetometers sent in for re-calibration. This column will have dashes instead of values for Magnetometers purchased new.