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# ANNIS

## PRECISION DEMAGNETIZING AND TESTING EQUIPMENT

### **ANNIS POCKET MAGNETOMETERS**

**MAGNETISM IS EVERYWHERE-** It is most commonly evident as residual magnetism in iron or steel objects. Determination of the degree of such magnetism is becoming more important for many critical components. Alloy steels, those that are heavily cold worked or heat treated, are especially prone to retain magnetism after having been subjected to strong magnetic fields, such as those created by magnetic chucks, magnetic conveyors, spot welding, magnetized machine tools, or magnetic analysis testing, etc.

**RESIDUAL MAGNETISM** in steel parts may be readily determined in a few seconds time by checking with an Annis Pocket Magnetometer. Place the lower (test) edge of the Magnetometer Case near or against the object being tested. The Pointer Instantly Deflects to a reading on the scale proportional to the magnetism in the object at that point. The higher the reading, the stronger the magnetic field is. This reading can be compared directly with that produced by other similar objects which are known to be acceptable from a residual magnetism standpoint. Are your parts satisfactorily demagnetized?

**MAGNETIC POLARITY** of the field being measured is indicated by the direction of pointer deflection on the center zero scale. A plus (+) deflection indicates the test edge of the Magnetometer has been presented to a North (seeking) magnetic pole.

**IS DEMAGNETIZING OKAY** – Steel components such as video and sound take recorder capstans and guides, that become magnetized, add to background noise and loss of recorded high frequencies. A Pocket Magnetometer will indicate when they are demagnetized to safe levels. Ask for a copy of “Notes On Demagnetizing”.

**ACCURATE QUANTITATIVE MEASUREMENTS** are possible, even under widely varying temperature conditions. As a matter of convenience, instrument calibration is correct at normal room temperatures, but when the occasion demands, readings may be taken at extremes of temperature with Model 25 instruments by applying the indicated percentage corrections to the readings for ambient (instrument) temperature in accordance with the straight-line graph.

**SEVERAL DIFFERENT RANGES** of Annis Pocket Magnetometers Model 25 are listed in the accompanying table. These are normally available from stock. Prepaid orders for Magnetometers

can therefore be shipped promptly. Shipping weight for a single unit is approximately 9 ounces. All Magnetometers shipped are F.O.B. Indianapolis, Indiana.

CARE SHOULD BE EXERCISED in handling your Pocket Magnetometer; it should not be dropped. Although quite stable under reasonable conditions of handling, scale calibration can be changed by accidental exposure to strong A.C. magnetic fields or by strong unidirectional fields that would tend to deflect the pointer considerably off scale.

CALIBRATION IS TRACEABLE TO N.B.S. and N.I.S.T. on all of our Model 25 instruments. Serialization and certification is available at an additional cost.

POCKET MAGNETOMETERS ARE HANDY – fast and easy to use, as well as being relatively inexpensive. The quantitative information secured can be extremely valuable to personnel in the tool room, stock room, inspection, engineering and laboratory, as well as in many production processes.

Gauss Meter Ranges:

0.5-0-0.5

1-0-1

2-0-2

5-0-5

10-0-10

20-0-20

50-0-50

100-0-100

200-0-200

300-0-300

400-0-400

Notes:

All meters are calibrated before shipment and have a dated calibration sticker.

*If you require Certification Documents it must be specified when ordering. There is an extra cost as it requires Serialization and NIST Traceable Certification Document Preparation. See Certification below.*



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