

# Magnetic Field Meter MF300H



MF300H AND TRANSVERSE HALL PROBE

- ◆ **Measures Magnetic Field Values**
- ◆ **Digital Display**
- ◆ **Selectable Units**
- ◆ **Output Data to Computer**

## Features of MF300H

- *Measures Average, Peak and RMS magnetic fields.*
- *User selects units of measurement.*
- *Rugged probe for extra protection.*
- *Auto Zero facility.*
- *Meets BS 5750/ ISO 9000 quality assurance requirements.*
- *Fully calibrated and delivered with certification.*
- *Supplied with a protective carrying case and full user instructions.*

## An Overview

This hand held, battery operated Magnetic Field Meter with its rugged Hall effect probe is suitable for laboratory and workshop use.

The Hall detector is housed in a stainless steel sheath for maximum protection. The meter uses a membrane key pad and a digital display which makes it simple to operate.

The instrument can be customized by the user to display a wide range of magnetic field measurements in a choice of units. Auto zero can be requested at any time by the press of a single key.

Measurements of magnetic fields together with the selected units are displayed on the unit and can also be sent via an RS232 link to a P.C.

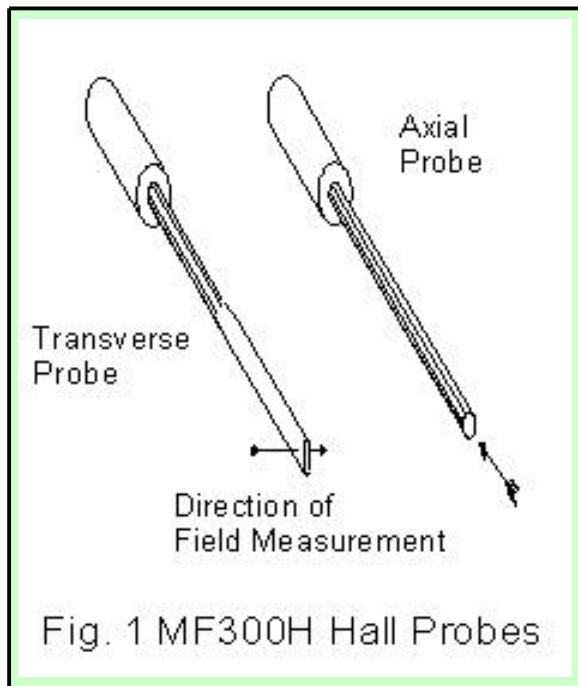
Software for use with the meter is provided which enables data to be saved and entered in spreadsheets.

## Optional Features

- *Transverse Probe*
- *Axial Probe*
- *Analogue output available for connection to chart readers*
- *RS232 output for computer connection*

## Applications

- *Magnetic field measurement*
- *Recording of magnetic field measurement*



## Specification

|                          |   |
|--------------------------|---|
| <b>Manual Ranges:</b>    | 0 to 1999<br>0 to 199.9<br>0 to 19.99       |
| <b>Auto Range</b>        | 0 to 1999                                   |
| <b>Maximum Value:</b>    | 1.99Tesla                                   |
| <b>Selectable Units:</b> | Gauss<br>Tesla<br>mTesla<br>Oersted<br>KA/m |
| <b>Functions:</b>        | Average<br>Peak<br>RMS                      |
| <b>Accuracy:</b>         | 1% Full Scale at 20C                        |
| <b>Probe Size:</b>       | 2.2mm x 6.5mm<br>100mm long                 |
| <b>Handle:</b>           | 50mm long                                   |
| <b>Power supply:</b>     | 4 standard AA cells                         |
| <b>Monitor Size:</b>     | 165 x 100 x 50mm                            |
| <b>Weight in Case:</b>   | 1.1kg                                       |
| <b>Warranty:</b>         | 12 months                                   |

## About the MF300H

The Software provided with the MF300H Magnetic Field Meter allows readings to be read and recorded on a P.C. The software will run on Windows XP, 98, 95, 3.1 and DOS and the data can be further processed using standard spreadsheets.

Magnetic Field measurements are recorded together with the time and date. Readings can be requested by pressing a key on the meter or directly from the computer keyboard. Alternatively, readings can be taken automatically at regular time intervals.

An analogue output is also available to enable the meter to be connected to chart recorders.

## DIVERSE Technologies

The MF300H is part of a range of magnetic field measuring equipment. The MF300B measures magnetic flux inside steel components. The MF300F measures the ferrite content of stainless steels.

DIVERSE specialises in the key technologies of joining and magnetics. Other DIVERSE welding and NDT products include: Magnetically Impelled Arc Butt Welding, Zeromag, a portable Weld Demagnetiser, and the Squeeze Analyser for resistance welding.

### DIVERSE

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