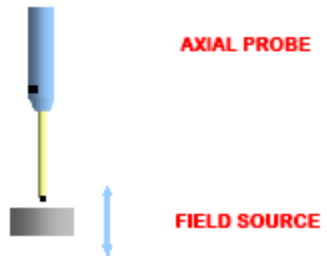


Gauss meters are used in conjunction with hall effect probes to measure the magnetic flux density at a given point. There are two types of hall effect probe that can be used with **GSMT 00529**, axial and transverse. (These have different sensor orientations)



Axial Probe

An axial probe is generally used to measure surface flux density or the flux density in the bore of a ring.



Transverse Probe

A transverse probe is normally used to measure magnetic field strength in an air gap.



When **GSMT 00529** is switched on a start menu is displayed which shows both the serial numbers of the meter and the probe that are being used and also displays the recommended date for the unit to be recalibrated. The first screen of the start menu can be programmed at manufacture to display your name, company name or e-mail address (16 characters by 2 lines are available).

FUNCTIONALITY

GSMT 00529 is a digital hand held meter that is designed to be used in any technical or inspection environment. As it is digital it can offer a number of functions that are not available on analogue meters.

These include:

Polarity. A function used to indicate the polarity of a measured field on the LCD display (i.e. north or south seeking).

Maximum Hold. This function is used to display the highest value recorded in a set of measurements (i.e. capture peak field).

Range. There are two set ranges and an auto-range function that automatically switches between the two.

Filter. A function that is used to control the sensitivity of the meter to changes in flux density.

Units. There are four different units in which measurements can be taken (i.e. Gauss Tesla Oersted and Ampere Meters). The meter can convert from one unit to another.

Store. Up to 100 data values can be captured and stored in the onboard memory.

Hold. A function to capture the current display reading.

Limit. This function can be used to set magnetic tolerance limits. An audible alert sounds to indicate that the measured field strength is within tolerance.

Info. This function can be toggled on and off to display the date and time.

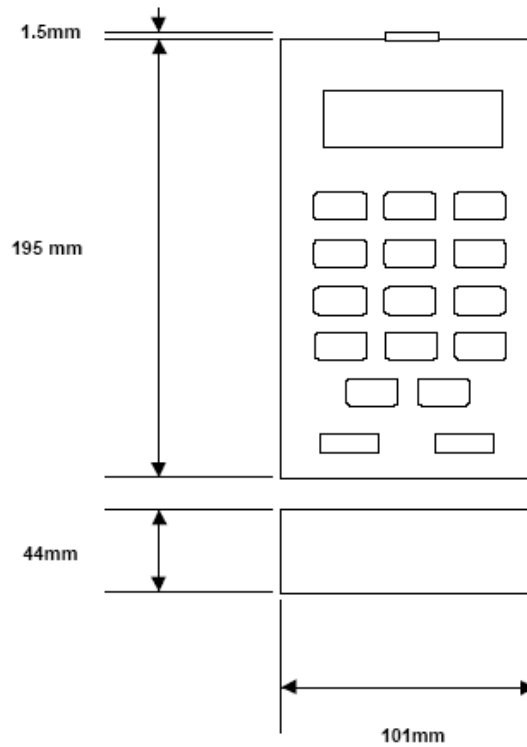
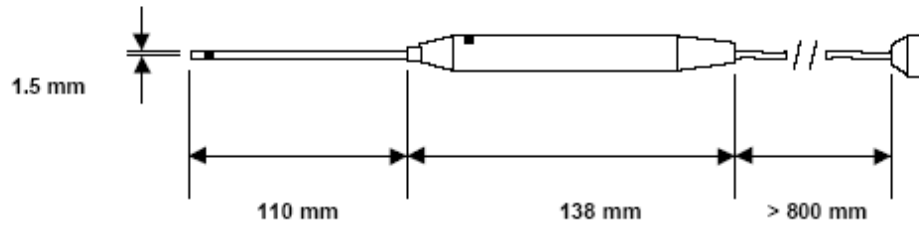
Power The meter is handheld and portable. It is powered by a heavy duty PP3 9v battery that gives at least 20hrs continuous operation. The meter powers down after 10 minutes to conserve battery life. A low battery warning is displayed when battery power is running low. The meter maybe powered by an external DC supply.

SPECIFICATION

STANDARD EQUIPMENT	TRANSVERSE HALL EFFECT PROBE IMPACT RESISTANT STORAGE CASE INSTRUCTION MANUAL BATTERY
ADDITIONAL EQUIPMENT	EXTERNAL POWER SUPPLY RS232 COMMUNICATION LEAD AND SOFTWARE TO CONNECT TO AN IBM COMPATABLE PC ZERO FLUX CHAMBER REFERENCE MAGNETS
MEASURING RANGE 1	1 TO 3000 GAUSS (0.0001 TO 0.3 TESLA)* RESOLUTION 1 GAUSS (0.0001 TESLA)
MEASURING RANGE 2	10 TO 30000 GAUSS (0.001 TO 3 TESLA)* RESOLUTION 10 GAUSS (0.001 TESLA)
ACCURACY	+/- 2.0% OR 10 GAUSS (WHICHEVER GREATER) TO 20 000 GAUSS (2.0 TESLA)
DISPLAY REFRESH RATE	0.05 TO 5 SECONDS (PROGRAMMABLE)
MEASUREMENT UNITS	GAUSS TESLA AMPERE METERS OR OERSTED
PROBE TYPES	TRANSVERSELY OR AXIALLY ORIENTATED HALL EFFECT INCORPORATING ONBOARD EEPROM TO STORE CALIBRATION DATA
OPERATING TEMPERATURE LIMITS	0°C TO +50°C
STORAGE TEMPERATURE LIMITS	-20°C TO +70°C
INTERNAL BATTERY TYPE	HEAVY DUTY 9V ALKALINE (PP3 FORMAT)
BATTERY LIFE	UP TO 20 HOURS (USING A BATTERY FROM A REPUTABLE MANUFACTURER)
EXTERNAL POWER SUPPLY SPECIFICATION (NOT SUPPLIED)	9 TO 12V DC REGULATED
DISPLAY TYPE	16 CHARACTER X 2 LINES LCD
METER SIZE	195MM X 101MM X 44MM
WEIGHT	0.42 KG (INCLUDING BATTERY)
COMMUNICATION PORT	RS232C AT 9600 BAUD TO CONNECT TO AN IBM COMPATABLE PC (LEAD NOT SUPPLIED)
SOFTWARE (NOT SUPPLIED)	MICROSOFT WINDOWS BASED UTILITIES AND CONFIGURATION SOFTWARE
APPLICATIONS	MEASUREMENT OF MAGNETIC FLUX DENSITY FOR QUALITY ASSURANCE AND GOODS INWARD INSPECTION FOR APPLICATIONS

Not suitable for Measuring AC Magnetic Fields

TRANSVERSE PROBE & METER GSMT 00529



Cost GSMT 00529 £695.00 + vat and Carriage

Additional Axial probe: GSMT00529/2 £250.00+ vat

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