

PROTON MAGNETOMETERS

AX2000



APPLICATIONS

SURVEY - Fulllest range of professional and commercial applications are served by the variety of options available in the AX2000 system :- including all types of archaeological and marine survey for anchors, cannon, cables, pipeline and general ferrous material.

SALVAGE - An essential tool for the professional salvor, providing an effective tool for the pinpointing of items for recovery - even when they have become deeply buried in silt and mud etc.

DIVING - Offers a positive means of wreck location and in particular provides a powerful means to survey an extensive area of seabed when only an approximate position of a wreck is known. The magnetometer is the most successful tool in modern times for locating "virgin" wrecks.

FISHING - Wrecks abound with fish life, the AX2000 is the ideal tool for ease of relocating good wreck fishing marks and searching for new unfished wrecks, where the true potential to break existing fishing records exists.

INTRODUCTION

The main feature of the *AX2000* is the very high contrast graphical display set behind an attractive front panel, plus an integral membrane keypad with a tactile response. Of the 20 keys 10 are numeric, 4 are arrowed and the remainder are dedicated function keys. The electronics are housed in an ABS plastic enclosure from the same family as the *AQUASCAN MC5 & AX100* magnetometers, thus providing a high level of environmental protection, and a gimbal mount for ease of removal or adjustment of the display angle. Selecting the operating mode and individual settings is by a sequence of menus that are easily accessed and selected via the keypad. A high degree of automatic selection through the software routines is also incorporated, particularly for initial input tuning optimisation - at the local ambient magnetic field strength. Additionally the scales can be set in either linear or logarithmic modes to enhance the presentation of information.

FEATURES

- ◆ LARGE LCD DISPLAY
- ◆ FLUORESCENT BACKLIGHT
- ◆ FULL NUMERIC KEYPAD
- ◆ DATA LOGGING
- ◆ GRAPHICAL TUNING
- ◆ NAVIGATOR INTERFACING
- ◆ PC/RS232 INTERFACING



AX2000 WITH SOLENOID TOWFISH

PROTON MAGNETOMETERS

SYSTEM DESCRIPTION

The standard AX2000 is a microprocessor controlled instrument consisting of an electronic module together with a solenoid type sensor (towfish), 40M (130ft) of cable and a light weight storage drum. Lengths of cable upto 60M(200ft) can be supplied with the standard solenoid or 150M (500ft) with the optional high powered version. Both of the above sensors are contained in durable housings. For parts of the world where the earth's magnetic field has a reduced angle of inclination the Aquascan toroid sensor is recommended.

The AX2000 functions as a graphical display magnetometer with continuous data recording by means of internal memory storage, digital printer or direct PC interface (baud rates are selectable). Positional information derived from an accurate navigation source can also be correlated with the magnetometer readings to provide a comprehensive survey log.

The system is intended to be offered as a standard or professional version with optional features such as monitoring towfish depth, increased datalogging facilities and on screen position plotting

SPECIFICATION

DIMENSIONS

CABLE

Diameter -8.0mm Arctic grade PVC
Length options from40M-150M

INSTRUMENT CASE

Housing280x153x65mm
Overall length between gimbals330mm
Bracket (Stainless Steel)305x100x25mm

SOLENOID PROBE

Plastic pressure housing with tail fin array

Standard460mm(L) x 90mm(W)
High power700mm(L) x 90mm(W)

TOROID PROBE

Cast Polyurethane sealed housing300mm(L) x 180(W)

Polarisation time 0.5, 1, 2, 3 seconds

Power+12v @ 1.5amps +24v @ 2.5amps

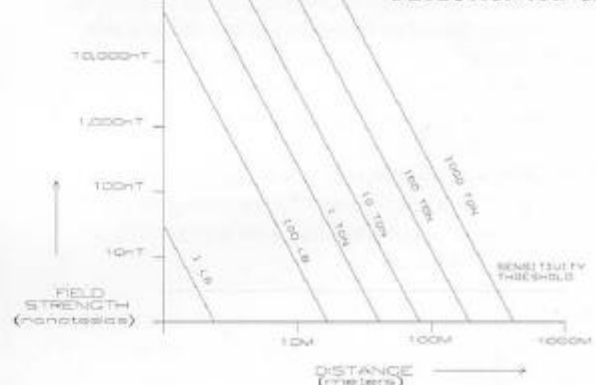
Alarm settingsOFF, 10, 20, 50 nT

RangesLOG & LIN 0+/-50 thro to 0+/-5000nT

TYPICAL DISPLAY OUTPUTS



DETECTION RANGE



AREA TUNE RANGE

World.....25000 to 65000 (nT)/W
European.....40000 to 65000 (nT)/E

SENSITIVITY / RESOLUTION

1nT in range.....25000nT to 60000nT
2nT in range..... > 60000nT

GRADIOMETER RANGE

Indicates the difference between successive readings

MEASUREMENT DISPLAY

240 x 128 LCD Display with FL backlight

INPUT / OUTPUT

serial communications port

2 Comms ports Standard

1 RS232 with variable Baud rate to 4800 Baud*

1 NMEA 0182/0183

* Professional version = 9600 Baud



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