

UNIVERSAL COURSE RECORDER AND TAPE HEADING REPEATER KW991

INTRODUCTION

The instrument is a low cost replacement for "course recorders." It connects directly to gyro and a GPS equipment.

Compass and GPS data is shown on the display. The KW991CR is programmed to output a single line of data at selective intervals. The data is fed to a standard low cost printer, or to a PC for recording on disk. The interval between outputs are:-

- a) Output every 6 minutes. (0, 6, 12 etc. 1/10th hour.)
- Paper usage on passage would be typically 4 pages per day.
- b) Output if course changes by 2 degrees from the last output. This occurs no faster than at a 10-second interval. Paper usage during manoeuvring would be typically 3 pages per hour.
- c) Output on demand by pressing the keypad Wheel button.

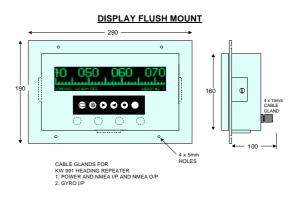
The KW991CR is not just a course recorder! The screen presentation of a moving tape allows the instrument to be used for as a Heading Repeater. Screen selection is by a tactile six –button keypad.

SPECIFICATION

- INPUT 1: DC and rectified unsmoothed DC stepper, 4 to 90v. 360:1 synchro up to 115v/90v. 50/60 400/500 Hz. 90X 400 Hz contactless transmitter. Tracking rate = Frequency/3 deg/sec. (DC step 333 deg/sec) Option: M-type resolved to 1/3 deg. OR NMEA 0183 input, so both input channels are NMEA. Input 1 must be \$HEHDT,x.x,T
- **INPUT 2:** NMEA 0183, GPS data or GPS and heading data. These sentences provide the data required. \$GPRMC or \$GPGGA + \$GPVTG + \$GPZDA.
- **OUTPUT 1:** 4800 baud. 8 bits. No parity. 1 stop bit. RS422 and RS232 compatible. Example: time, position, course, speed and course over ground, date.

12:30:00 51 30.521N 003 23.456 W 009 deg 12.0 sog 012 cog 25:12:99

- OUTPUT 2: 3 x 5v CMOS ports to sink or source 5 mA. Alarm output as default. Fit a 5 volt low power audible alarm or relay for high power alarm.
- SCREENS:Presentation screens, Tape; width +/- 15 degrees
and +/- 12.5 degrees.
Tape traverse rate 20 deg/second independent of
input tracking rate.
Large digital 41 mm high.
Digital heading with GPS position, time, cog, sog.
- **POWER:** 10 to 35 volts at 12 watts. Switch on surge 2 amps.
- **HOUSING:** Duck Egg Green diecast box 260 x 160 x 90 IP55 with trunnion or flush mount.



PRINTER:80 columns, 4800 baud, for fanfold or paper roll. These are normally AC operated.
Set printer for International English font, and Auto-LF. Printer may be AMI or customer supply.



AMI - GFV MARINE Ltd. 18 Canute Road, Southampton, SO14 3FJ UK TEL 44 (0) 23 8048 0450 - FAX 44 (0) 23 8048 0451/2 Email - m.k.woods@btinternet.com Web - http://www.amimarine.com

