DUAL RESOLVER TO DIGITAL INTERFACE
KW910-X2 WITH 8-PORT DATA OUTPUT

INTRODUCTION
The interface converts coarse and fine resolver transmission to NMEA 0183 or IEC 61162 data.
Applications...

- Gyro compass
- Heading displays.
- Data passed from other instruments, e.g. log.
- Radar, ECDIS, VDR interfacing

The interface is a precision device, and does not require alignment. The interface can convert gyro ratios from 1:1 to 360:1. DIP switches select ratio and small correction value.

The KW910-X2 is based on previous highly successful interfaces, made since 1988.

SPECIFICATION

INPUTS 1 & 2: Resolver 50 to 550 Hz. Reference 4 to 220v. Phases 10 to 90 volts.
Plug-in scaling resistors 12K to 270K ohm per phase. (R = 3xV K) 22K reference.
Conversion of coarse & fine inputs 14 bits, Conversion rate 20 Hz.
Fine ratios 9:1, 10:1, 30:1, 36:1, 90:1, 180:1, 360:1 are available to order. At the moment only the 30:1 fine ratio is programmed in.

DATA INPUT: NMEA 0183 port. Data input here is passed through to the output.
This allows the combining of data from other instruments. Only small amounts may be passed because it will slow the output rate of heading.

OUTPUT: NMEA 0183, RS422, RS232 compatible.
Data NMEA 0183 $HEHDT, xxx.x,T * hh cr lf. 1 per second.
$PADI sentences gives coarse, fine & final angle. Update rate 20 Hz.
Final angle is 14 bit, (0.02 degree) derived from coarse and fine values.
8 pole DIP switch for final angle correction +/- .02 to +/- 2.7 degrees.

POWER & DATA DISTRIBUTION: The 8-port distribution uses a 2nd PCB. Eight 5-way terminal blocks. (A, B, ground, +24v, 0v.)

POWER: 20 to 32 v DC at 0.1 amps.

ENCLOSURE: Grey/brown standard enclosure with door 500 x 400 x 150mm

FEATURES: Undrilled gland plate for compression glands. Lift-off terminal blocks.
LEDs on data in and out plus bicolour status LEDs.

REVISED: 21/02/2005 by Andrew Fairgrieve.
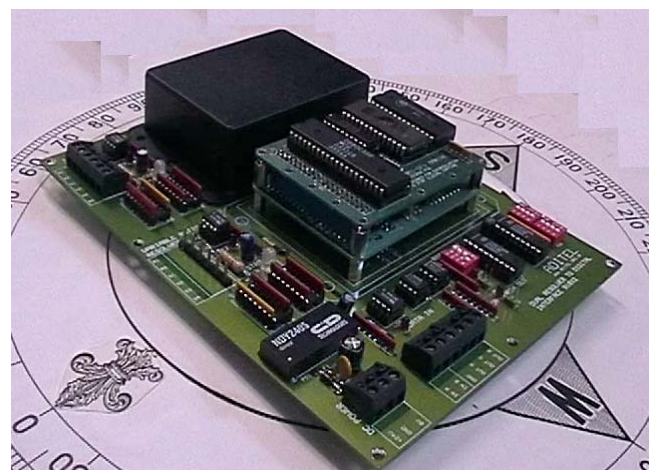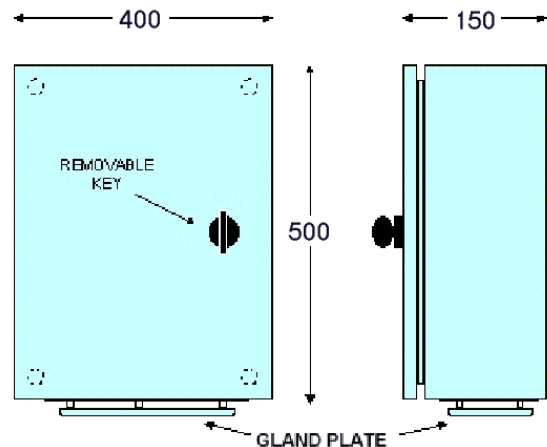
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