

DATA DISPLAY AND INTERFACE KW950-E

VERSATILE INTERFACE & PROTOCOL CONVERTER

- Display of data at various places
- Interface for radar, ECDIS, VDR, AIS etc.
- Gyro heading & data filtering
- Speed from log, pulses per mile
- Speed from GPS to 200/400 pulses/mile
- Depth from echosounder
- Watchkeeping alarm
- Shaft or engine RPM
- Rudder angle interface
- More. **Check the option list for details**
- Course and data recorder



SPECIFICATION FOR THE HEADING FUNCTIONS

INPUT 1: Stepper 6 steps per degree, including raw rectified stepper, 20 to 70v. Features include the automatic wide range of inputs plus a DIP-SWITCH selection of options, many for the offshore survey industry.
Synchro 1 rev/degree 50-115 v.ref. 20-90 v signals. 400Hz "contactless transmitter."
M-Type stepper. OR NMEA 0183 heading, \$HEHDT

INPUT 2: NMEA 0183 heading sentences. Gyro priority.
Cetrek, Yokogawa, , SGBrown proprietary data
Or, in pass-through mode, NMEA 0183 data.
Robertson and Anschutz Coursebus interfaced, but with caution!

OUTPUT: NMEA 0183 default \$HEHDT,x.x,T and \$HEROT
One per second and whenever heading changes or various fixed rates.
Or Yokogawa, SGB data, Anschutz Coursebus & Robertson, with caution!
"Pass-through" mode. Heading and GPS data.

BAUD RATES: Variable 2400, 4800 (default) 9600, 38400 selected by option dip switch.
The data inputs can not handle 38400 baud as standard.

BRIEF SPECIFICATION FOR SPEED FUNCTIONS

INPUT: NMEA 0183 VBW or GPS speed over the ground.
OUTPUT: NMEA 0183 & 200 PPM.
INPUT: 100, 200 or 400 pulses per miles
OUTPUT: NMEA 0183 VBW or VHW
INPUT: Proprietary, JRC log
OUTPUT: NMEA 0183 VBW

BRIEF SPECIFICATION FOR ECHO SOUNDER INTERFACE

INPUT: Transmission pulse and echo pulse. 5 to 30 volts
OR...
Serial data from Marconi Seachart echosounder
OUTPUT: NMEA 0183 SDDPT and SDDBT

BRIEF SPECIFICATION FOR RPM INTERFACE

INPUT: Pulses or AC waveform to opto isolator, 5 to 30 volts.
Slow rate, typical of shaft revolutions: 10 pulses per rev. (Max about 500 RPM)
High rate, typical of engine revs: 5000 Hz = 2000 RPM or 150 pulses per rev. (Max 6000 RPM)
Both these values may be altered by changing two locations in the EPROM.

INPUT: Astern DC indication.

OUTPUT: \$ERRPM.
Centre, port or starboard, and shaft or engine revs, 6 options.
Rate 1 per second

BRIEF SPECIFICATION FOR WATCHKEEPING ALARM

SETUP: Set time count-down on display in minutes. Retained in battery backed RAM.

LOCAL ALARM: 5v for a 5v local audible warning device. This will start sounding on the bridge to alert the watchkeeper.

EXTERNAL ALARM: 5v for a device normally located in the accommodation which will alert the crew. The watchkeeper must press the reset button before the count down expires to avoid the alarm sequence.

BRIEF SPECIFICATION FOR COURSE RECORDER

INPUT: Heading and GPS. Option: rudder angle by RSA sentence

OUTPUT: 4800 baud data for a plain-language print-out

PROGRAM: The course recorder uses an EPROM program available on request.

GENERAL DATA

DISPLAY: 4 digit red LED 0.6 inch, 15mm high for heading speed etc. Adjustable illumination.

CONTROL: 3 push button switches for align, increase, decrease.

OUTPUT: 5v CMOS drivers via 47 ohms

POWER: 10 to 32 volts DC at 5 watts.

CONNECTIONS: Via cable glands to lift-off terminal blocks. (Cables not supplied.)

HOUSING: DIN case 144 wide, 72 high, 142 mm deep. Flame retardant to DIN 43700
Supplied with a trunnion. Screw clamps for panel mounting optional extra

OPTION LIST: Published on the web site below. Email to request latest EPROM data.

DATA SHEET UPDATED 22/09/2006. The KW950E is designed and manufactured in the UK

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