



SYNCHRO INTERFACE

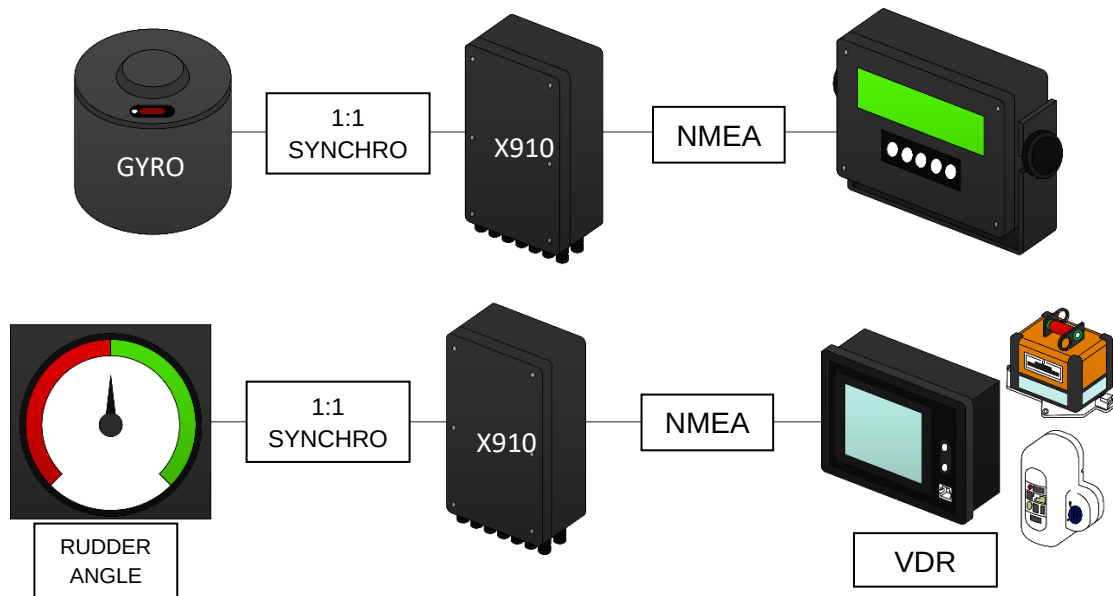
The X910 will convert AC Synchro transmission signals to NMEA0183 IEC61162 data.

Applications include;

- Gyro compass for radar
- ECDIS and heading displays.
- Rudder Sensor Angle used with a VDR.
- Wind speed and direction used with a VDR or ECDIS
- Log speed
- Telegraph
- Pitch
- Rudder demand

The “XDR” sentence can be used for many Synchro systems.

The X910 interface is a precision device, and does not require alignment in the 1:1 and 90:1 mode. The default input voltage for reference and signal are 115v and 90v. Other voltages are accepted with the use of scaling resistors. The function and choice of data output is set by a rotary switch. The interface can convert 1:1, 90:1 and rudder sensor ratios such as 4:1, without the need of Alignment Buttons. For other ratios an Alignment Button Pad is required. The required NMEA output is DIP switch selectable.



SPECIFICATIONS

INPUT 1: Synchro 40 to 550 Hz
Reference 6 to 115v. Phases 3 to 90 volts

INPUT 2: NMEA 0183 port. 4800 baud
Gyro option: Programmed for all NMEA heading sentences input
Rudder Sensor Angle option: Input a 2nd rudder angle (or rudder demand)
Wind option: Use a second interface to input speed or direction
XDR option: A second transducer value can be input

OUTPUT: NMEA0183 4800 baud, RS422, RS232 compatible
Gyro options: \$HEHDT, \$HEROT, \$HCHCC, \$HCHDM
Rudder sensor angle: Outputs a \$ERRSA Synchro transducer angle sentence with two values; first the interface's own angle, the second field taken from the first field entered via the NMEA input port
Wind option: \$WIMWV. The interface outputs wind speed OR direction
The other field can be filled by input from the NMEA input port
XDR option: More than 8 XDR identities, switch selectable
Outputs a \$ERXDR Synchro transducer angle sentence with two values; first the interface's own angle, the second field taken from the first field entered via the NMEA input port

POWER: Nominal 24 v DC at 0.2 amps

ENCLOSURE: 144 x 222 x 55mm, 850g

CABLE ENTRY: Glands for 7 mm diameter cables

FEATURES: LEDs on data in and out plus bicolour status led
Connections are lift-off terminal blocks

RATIOS, SCALE OFFSET AND ALIGNMENT: It is generally assumed that Synchro 1:1 has a natural zero of 000.0 degrees, Midships, All Stop etc
The X910 may be adjusted for an offset if required
For ratios other than 1:1 an optional extra 4 button keypad is required and may be fitted in the factory at the time of order

APPROVALS: IEC60945