SR03-01Mk2 SUMMARY of FEATURES

1. **Type Approval:** SR03-01Mk2 is Type Approved by DNV-GL.
2. **Input Power Supply:** 24V DC. All Step and Synchro signals are generated internally (also ref).
3. **Input Control:** SR03-01Mk2 Decodes a number of protocols – see table:

Table 1: ***Input Protocol OPTIONS:***

Protocol	Sentence description	Comments	Stop	Parity	Data
NMEA --THS	$--THS,x.x,T*hh	Gyro True Heading	1	No	8
NMEA HEHDT	$HEHDT,x.x,T*hh	Gyro True Heading	1	No	8
NMEA HCHDT	$HCHDT,x.x,T*hh	Magnetic heading	1	No	8
NMEA --HDT	$--HDT,x.x,T*hh	General True Heading	1	No	8
NMEA --HDM	$--HDM,x.x,T*hh	Magnetic Heading	1	No	8
NMEA --HDG	$HCHDG,x.x,x.x,a,x.x,a*hh	Magnetic Heading	1	No	8
NMEA --HDT / --HDG	Special mode where HDT and HDG data are available from one data source; if HDT lost, will allow operator to accept HDG instead	Combined heading source Alarm: **"HDT/HDG Fallback!"**	1	No	8
NMEA PPLAN	$PPLAN,,,,,,,,a*hh<CR><LF>	Sperry Proprietary - see explanation below	1	No	8
LR40	Binary Protocol	Heading	1	No	8
LR22 SKR80 & 82	Binary Protocol	Heading	2	Odd	8
RGC11Tokimec	STXKxxx.x[Lxx.x]ETX	Heading (and speed optional) Note: speed is NOT used by the SR03-01 but is passed to the digital output if programmed for RGC	1	No	8
Anschütz C-Bus	STX<b1><b2><b3><b4><b5><b6><b7><b8><b9><b10><b11><b12><b13><b14><b15><b16>ETX.	Heading	1	No	8
NMEA $PPPRP	$PPPRP,xx.x,xx.x*hh<CR><LF>	Sperry MK27F Roll & Pitch	1	No	8
NMEA $PPLAR	$PPLAR,xx.x,xx.x*hh<CR><LF>	Sperry Roll & Pitch (new format)	1	No	8
Anschutz PANZHRP	$PANZHRP,x,x.x,x.x,x.x,x.x,x.x,x.x,a,a*hh<CR><LF>	Anschutz proprietary heading, roll and pitch	1	No	8
Anschutz HETRO	$HETRO,x.xx,a,y.yy,b*hh<CR><LF>	Anschutz proprietary roll and pitch	1	No	8
Yokogawa NMEA	$HEHRCxxxxx,-xxx*hh<CR><LF>	Special Yokogawa protocol	1	No	8

4. **Drive Mechanical Repeaters:** SR03-01Mk2 can typically drive up to 12 repeater, SYNCHRO or STEP, including 35/70VDC and Synchro 90/180/360X. It is programmed at the time of installation for any type of STEP signal (+ or - ref) or for any type of SYNHCRO Signal (also 1X, 2X, 11X, 36X, 90X, 360X)
5. **Heading Monitoring:** SR03-01Mk2 can receive two (2) Heading data signals and it is approved a Heading Monitoring Device w/ Switch-over and it can also Connect to a REMOTE Control Unit; SR03-03
6. **Fallback to Magnetic Compass data:** SR03-01Mk2 can bet set up accept gyro data and magnetic data on the same input. If the gyro data disappears the SR03-01Mk2 can switch to Magnetic Heading data.
7. **Serial Data Output Protocols:** The "selected" Heading can be outputted on NMEA, Raytheon Anschutz Course Bus, the special Tokimec (STXKxxx.x[Lxx.x]ETX) protocol or the special Yokogawa protocol ($HEHRCxxxxx,-xxx*hh<CR><LF>).
8. **ROLL & PITCH**: Receive ROLL & PITCH data and drive ROLL or PITCH Synchro Devices.
9. **RESOLVER Output:** Receive Heading Input data and drive Synchro Resolver signals.
10. **SPEED INSTRUMENTS:** Receive NMEA LOG data and drive Synchro SPEED instruments.